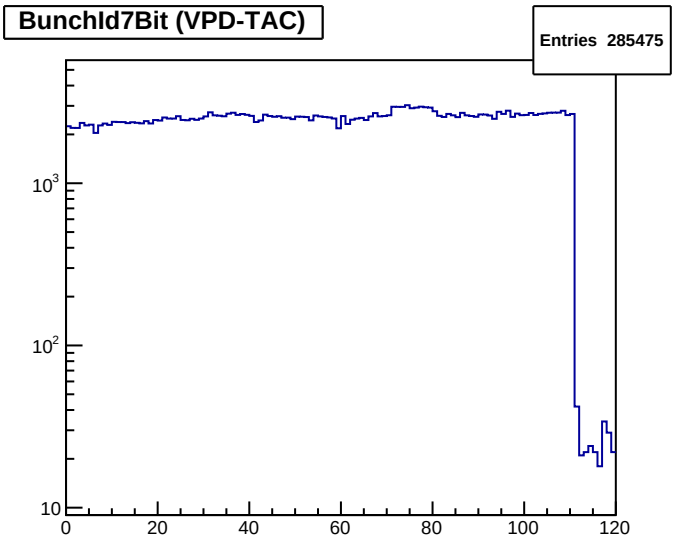
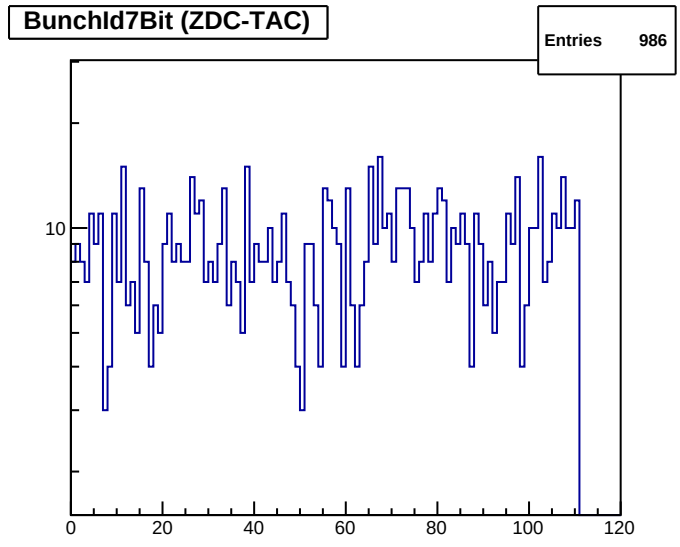
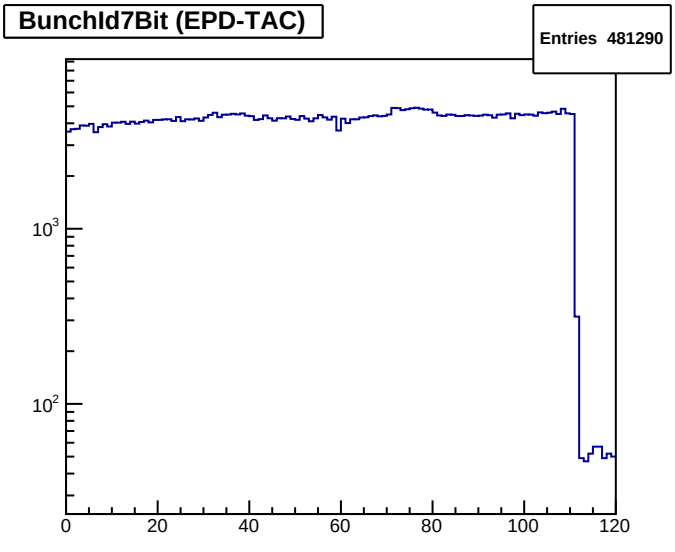
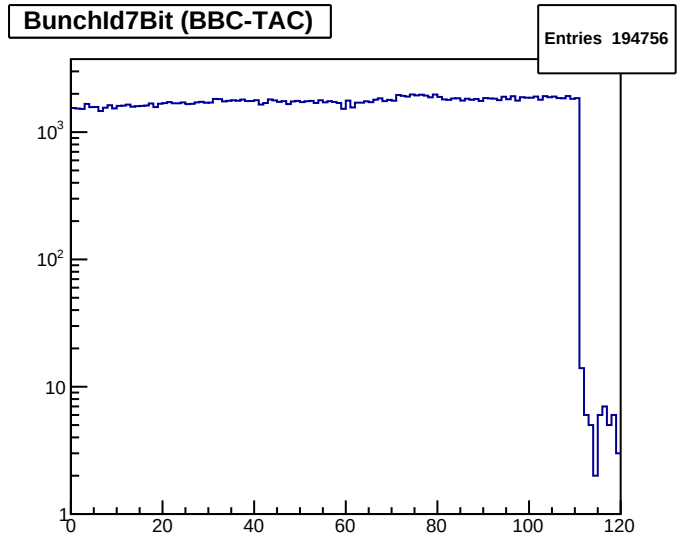
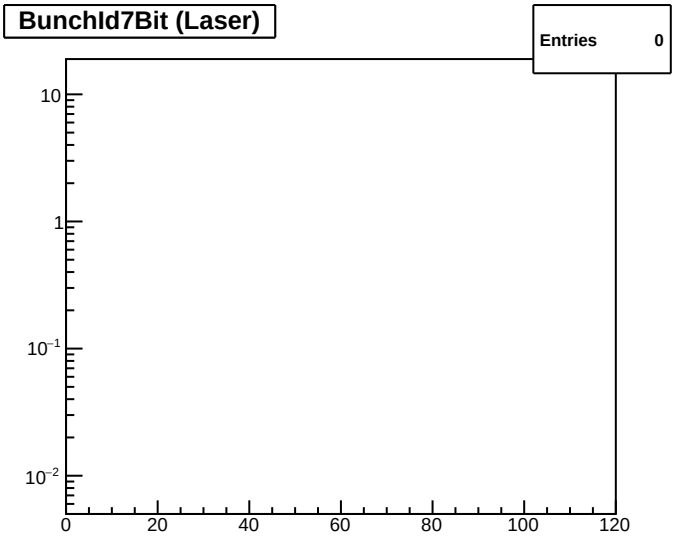
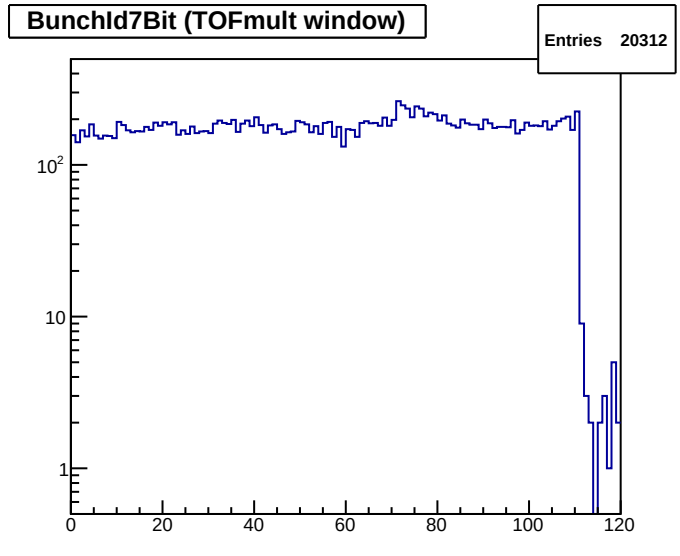

BunchId7Bit (VPD-TAC)
Entries 285475
10^3
10^2
10
0 20 40 60 80 100 120

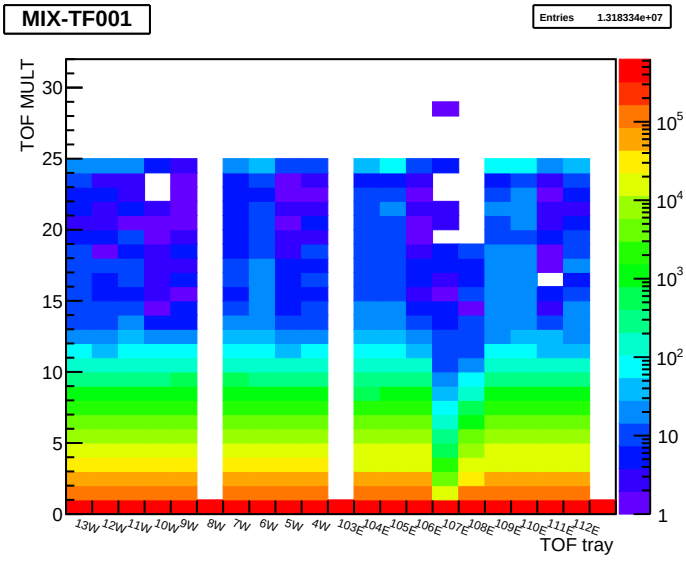

BunchId7Bit (ZDC-TAC)
Entries 986
10
0 20 40 60 80 100 120

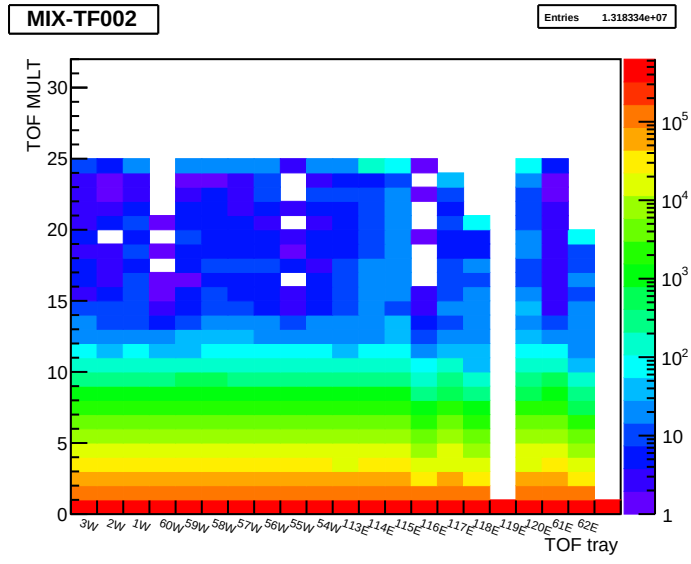

BunchId7Bit (EPD-TAC)
Entries 481290
10^3
10^2
0 20 40 60 80 100 120

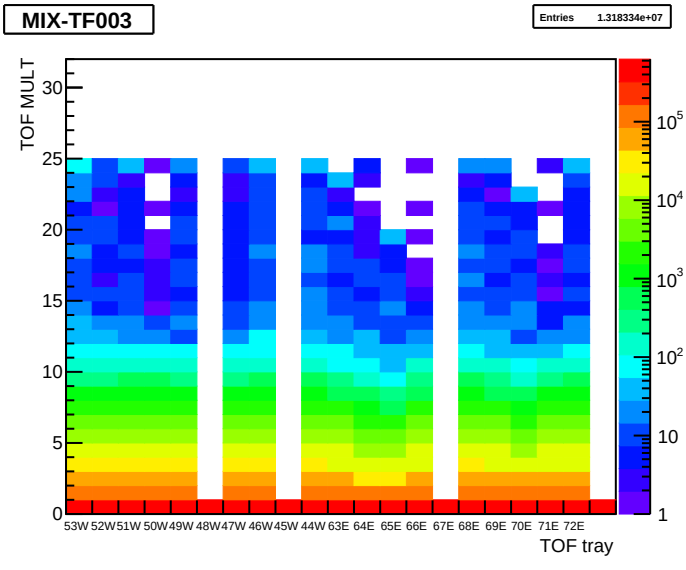

BunchId7Bit (BBC-TAC)
Entries 194756
10^3
10^2
10
1
0 20 40 60 80 100 120

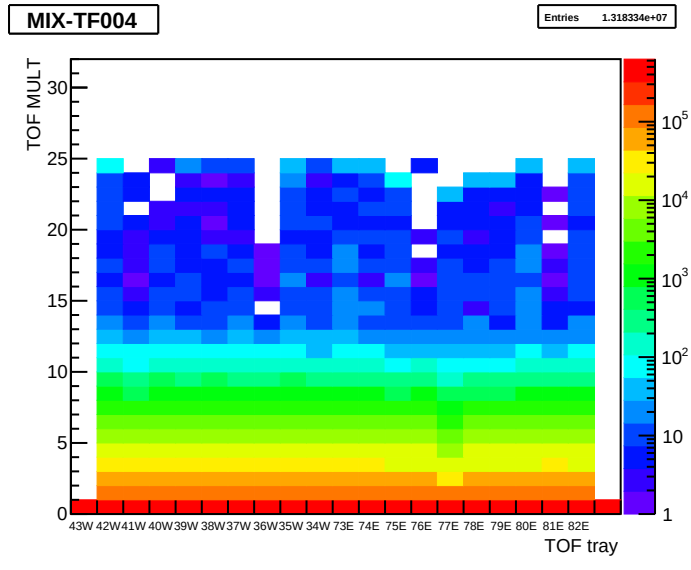

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

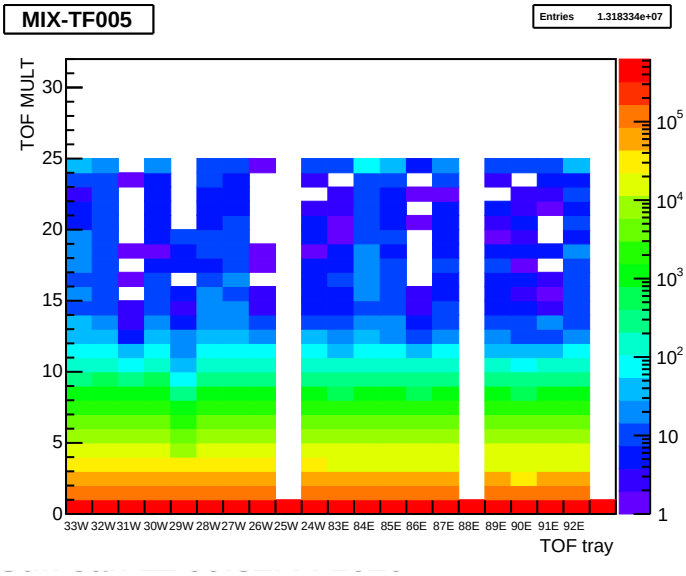

BunchId7Bit (TOFmult window)
Entries 20312
10^2
10
1
0 20 40 60 80 100 120

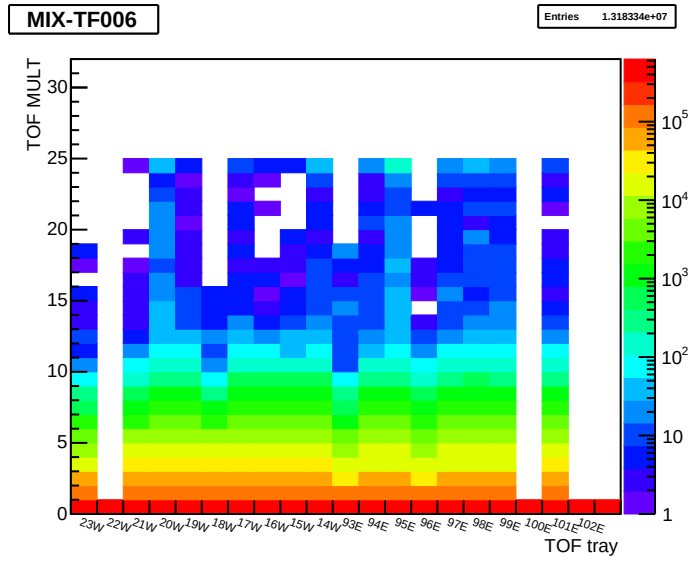

MIX-TF001
Entries 1.318334e+07
TOF MULT
TOF tray

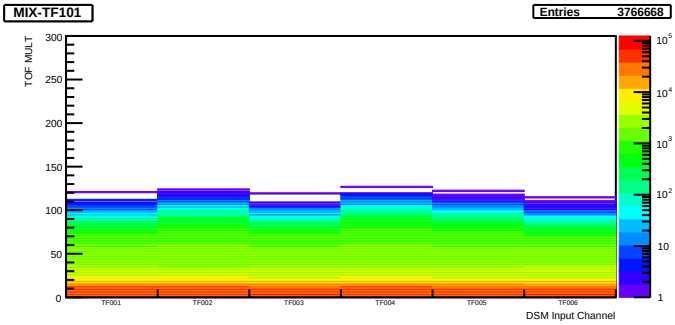

MIX-TF002
Entries 1.318334e+07
TOF MULT
TOF tray

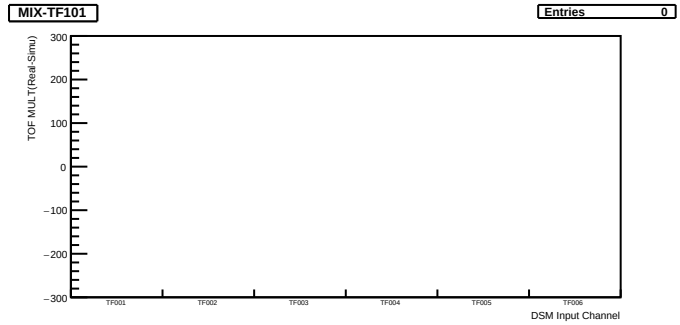

MIX-TF003
Entries 1.318334e+07
TOF MULT
TOF tray

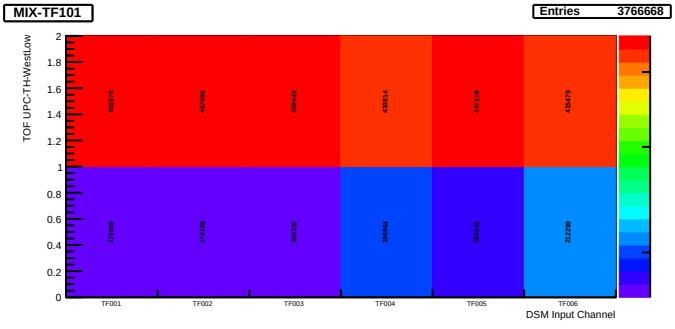

MIX-TF004
Entries 1.318334e+07
TOF MULT
TOF tray

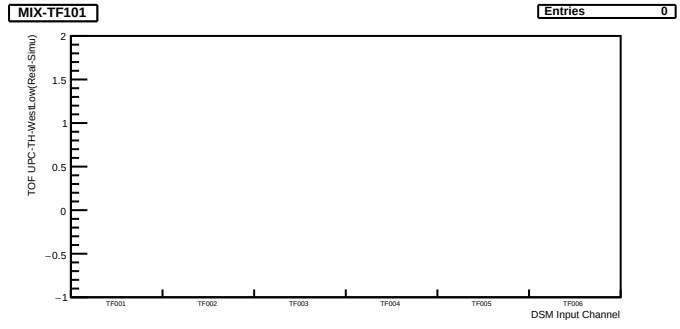

MIX-TF005
Entries 1.318334e+07
TOF MULT
TOF tray

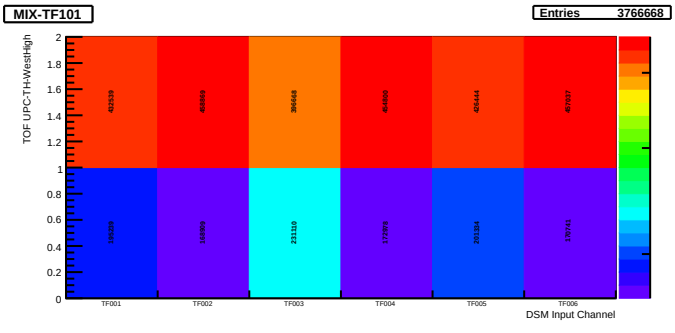

MIX-TF006
Entries 1.318334e+07
TOF MULT
TOF tray

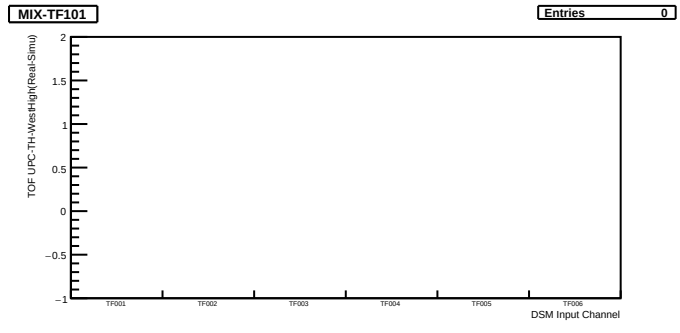

MIX-TF101
Entries 3766668
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

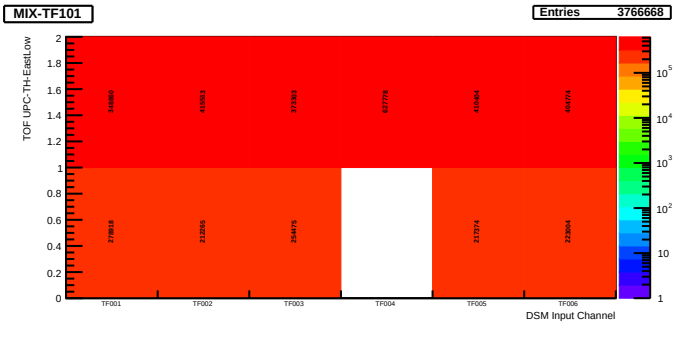

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

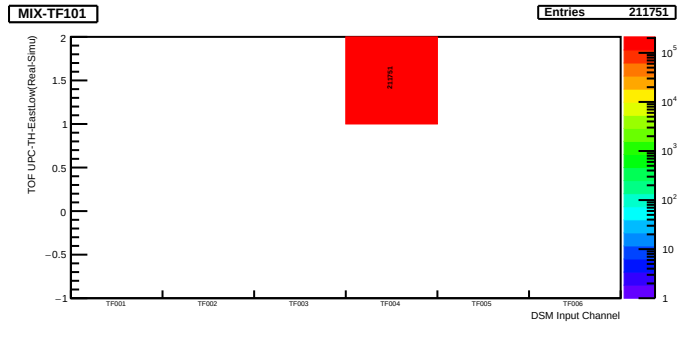

MIX-TF101
Entries 3766668
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

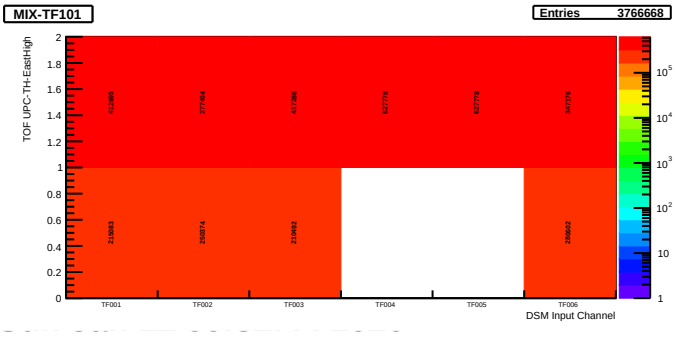

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

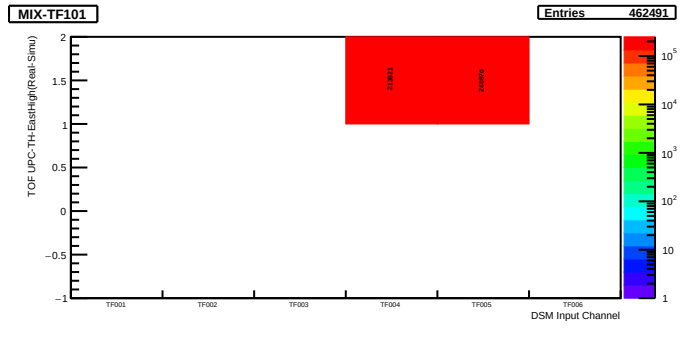

MIX-TF101
Entries 3766668
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

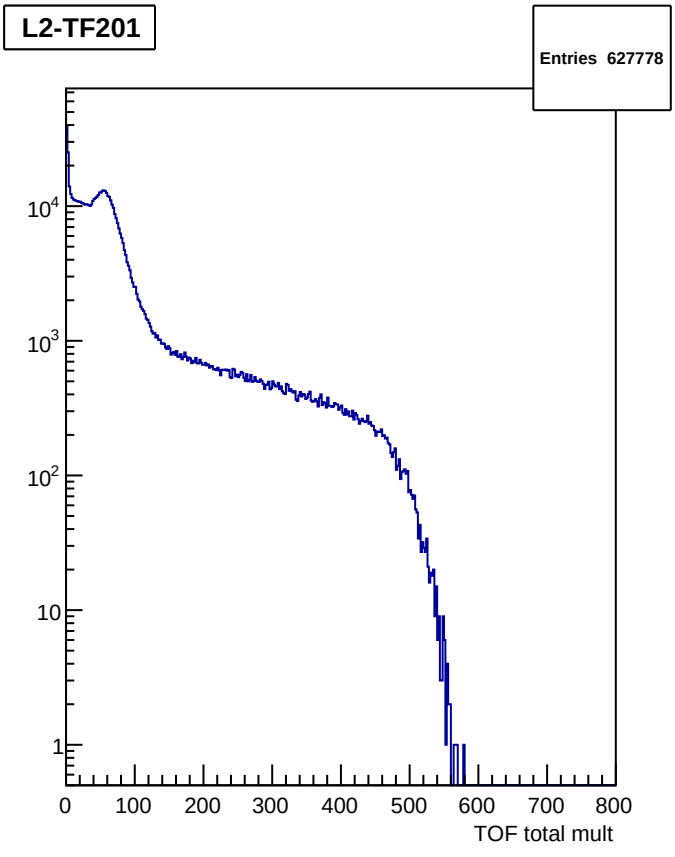

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

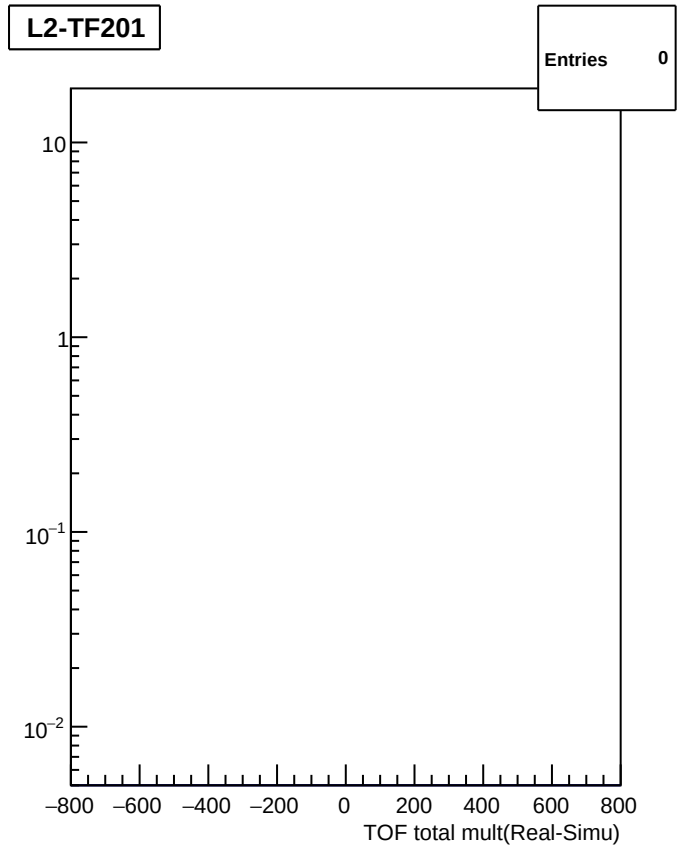

MIX-TF101
Entries 3766668
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

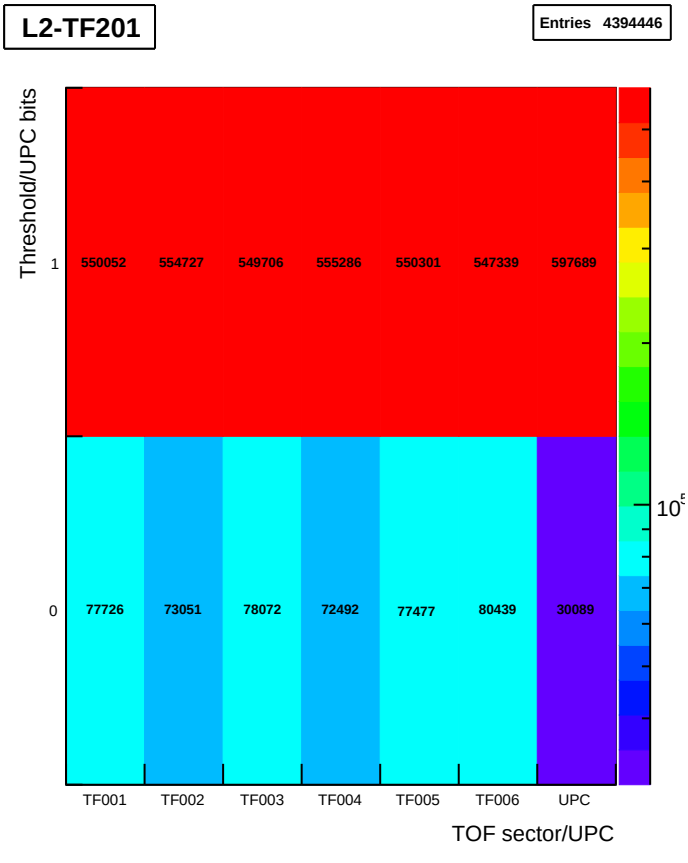

MIX-TF101
Entries 211751
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

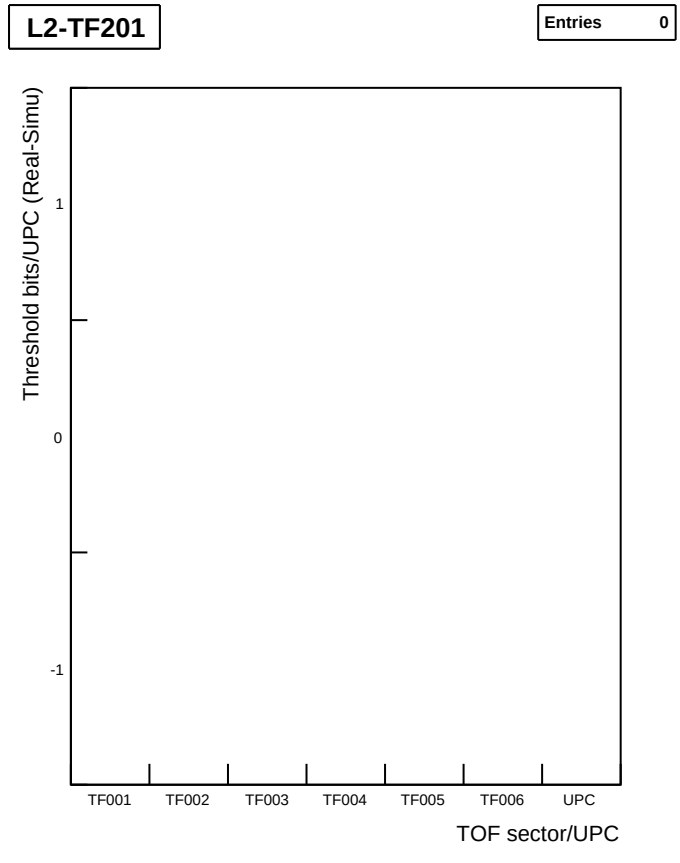

MIX-TF101
Entries 3766668
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

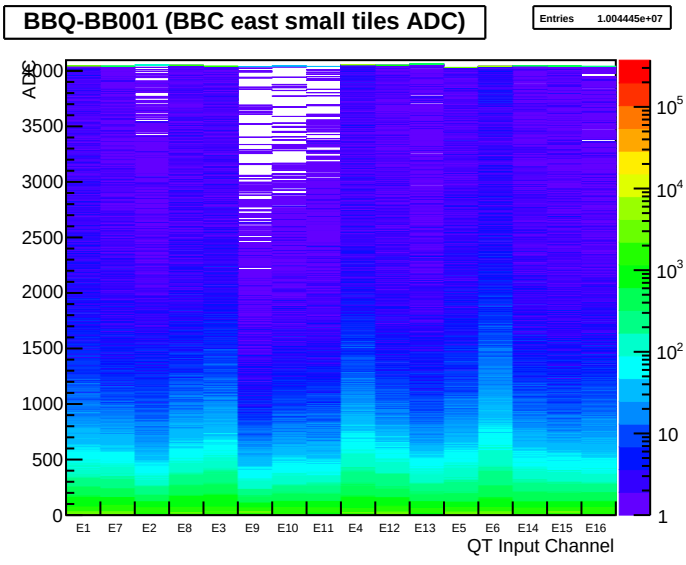

MIX-TF101
Entries 462491
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

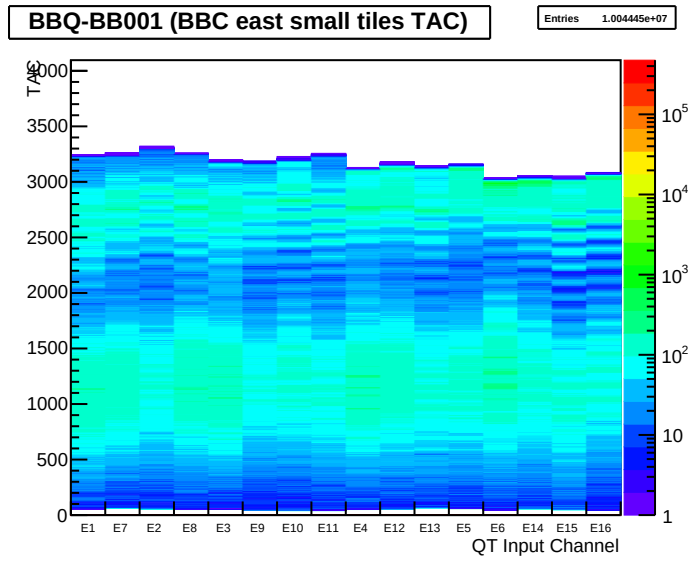

L2-TF201
Entries 627778
TOF total mult

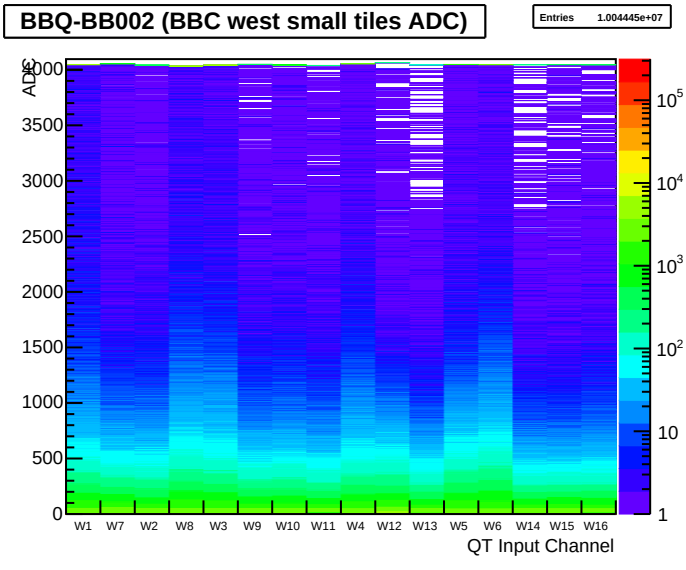

L2-TF201
Entries 0
TOF total mult(Real-Simu)

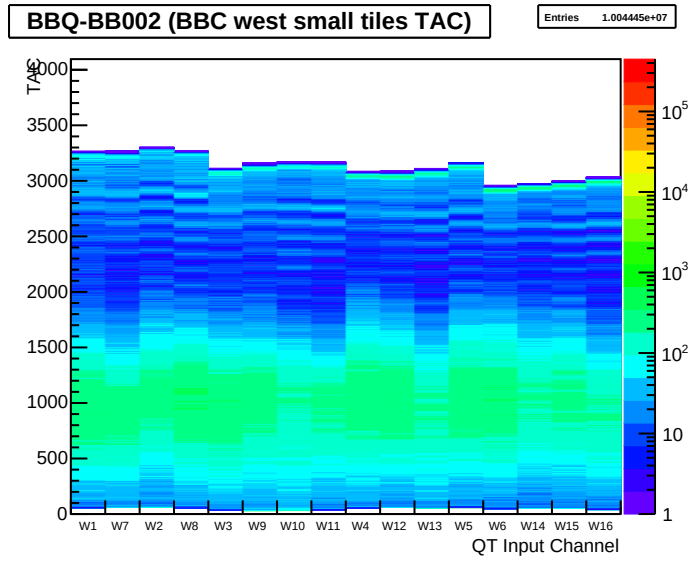

L2-TF201
Entries 4394446
Threshold/UPC bits
550052
554727
549706
555286
550301
547339
597689
77726
73051
78072
72492
77477
80439
30089
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

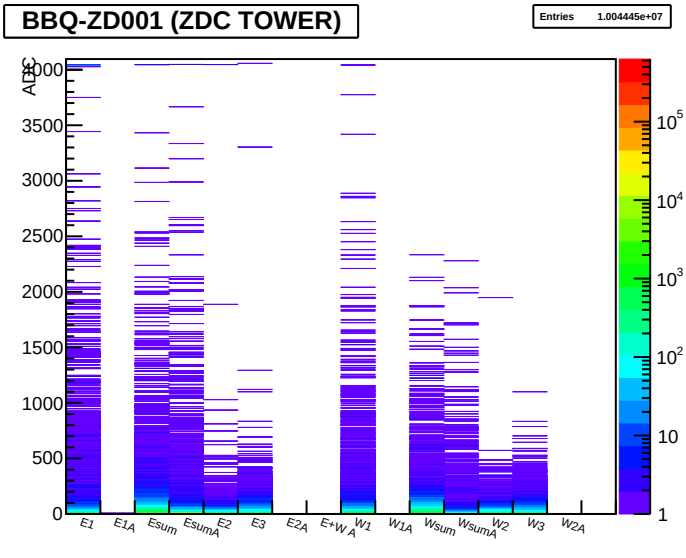

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

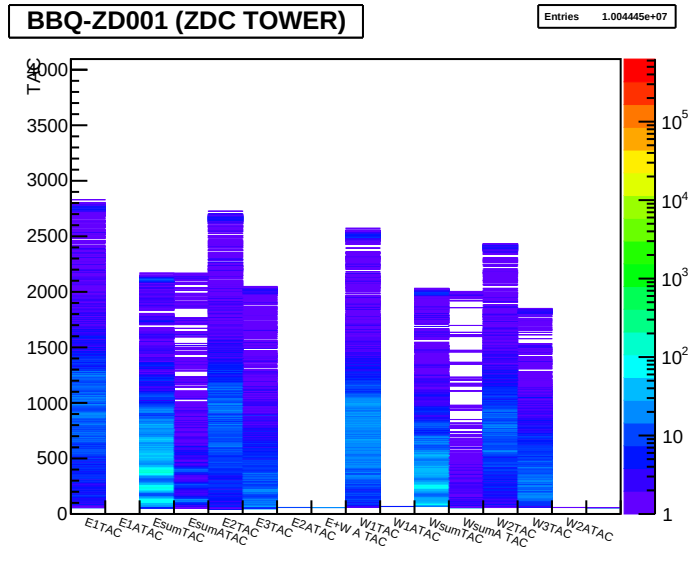

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.004445e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

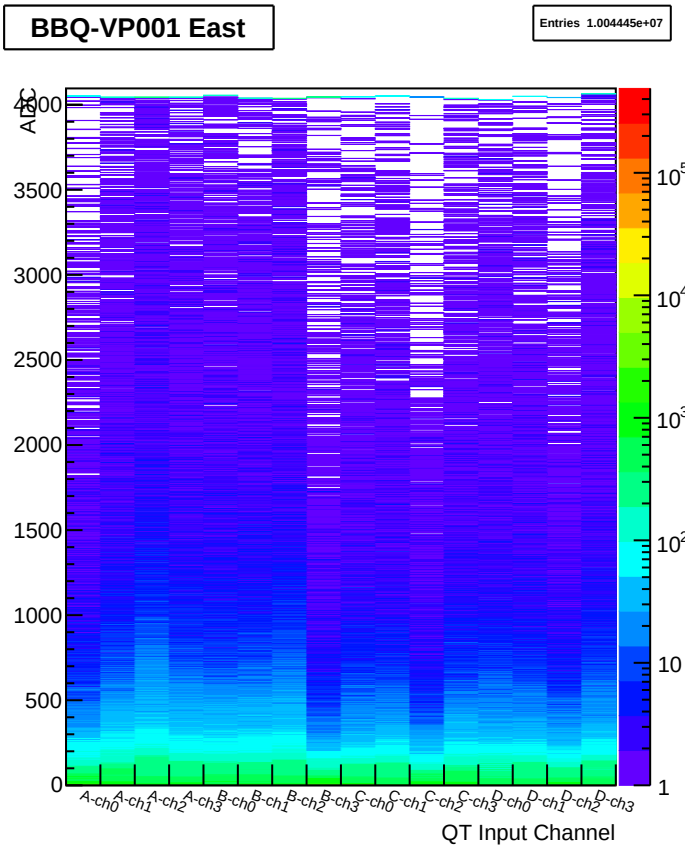

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.004445e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

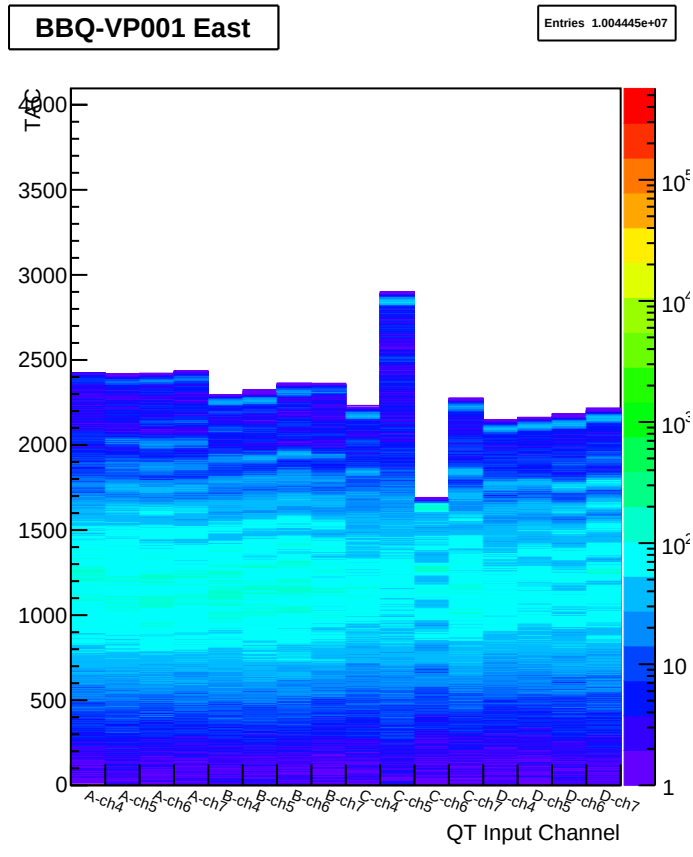

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.004445e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

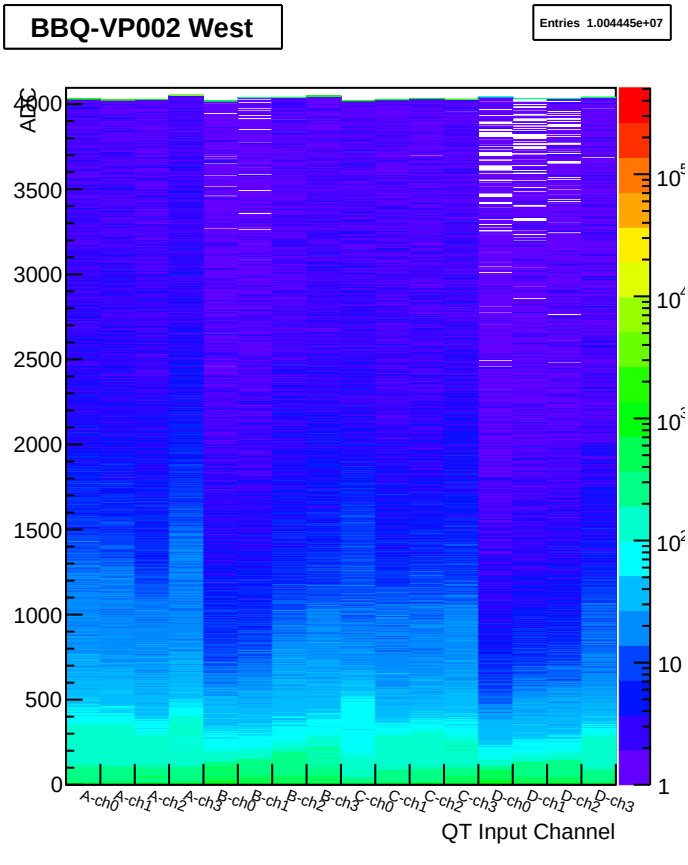

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.004445e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

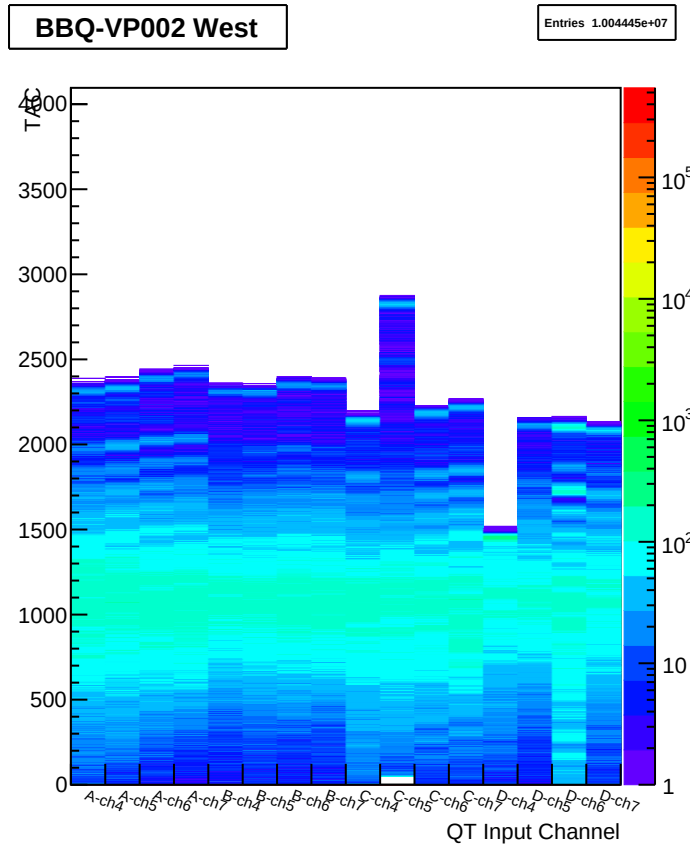

BBQ-ZD001 (ZDC TOWER)
Entries 1.004445e+07
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

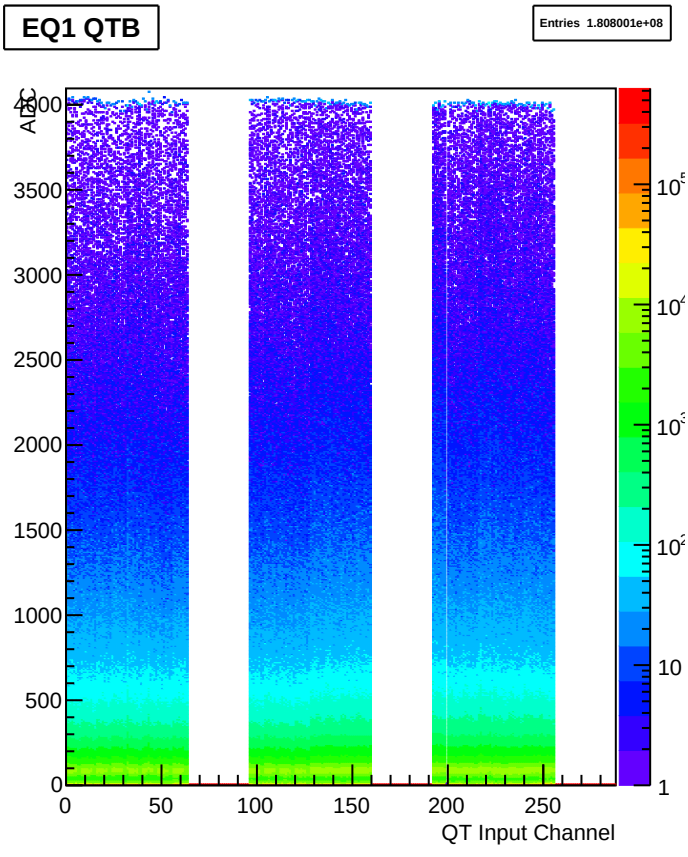

BBQ-ZD001 (ZDC TOWER)
Entries 1.004445e+07
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

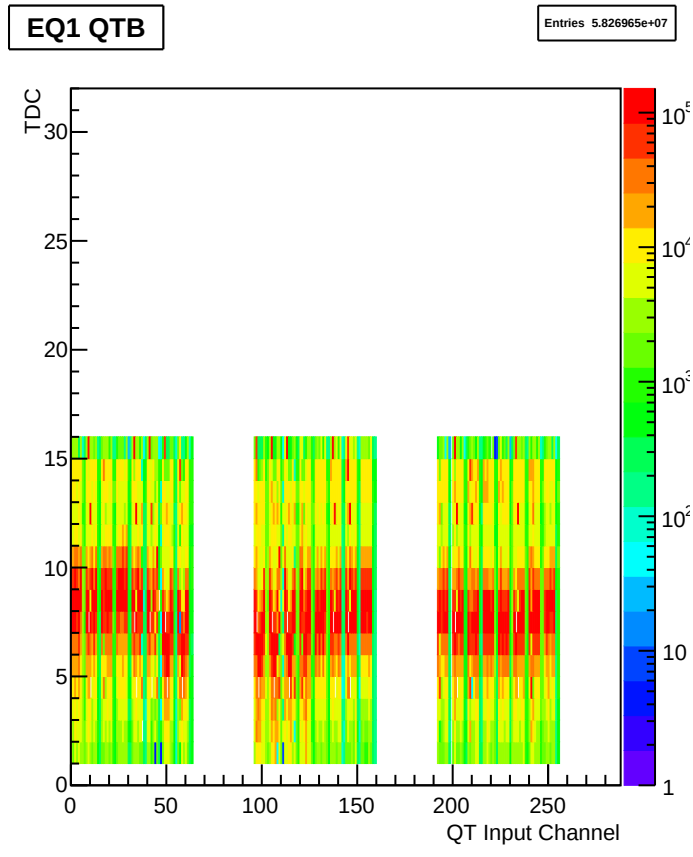

BBQ-VP001 East
Entries 1.004445e+07
ADC
QT Input Channel

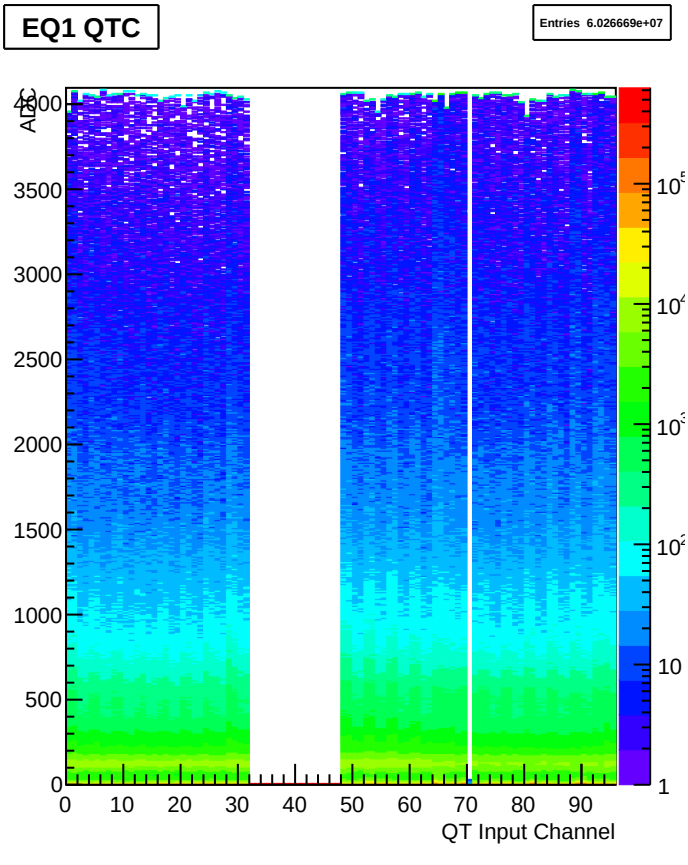

BBQ-VP001 East
Entries 1.004445e+07
TADC
QT Input Channel

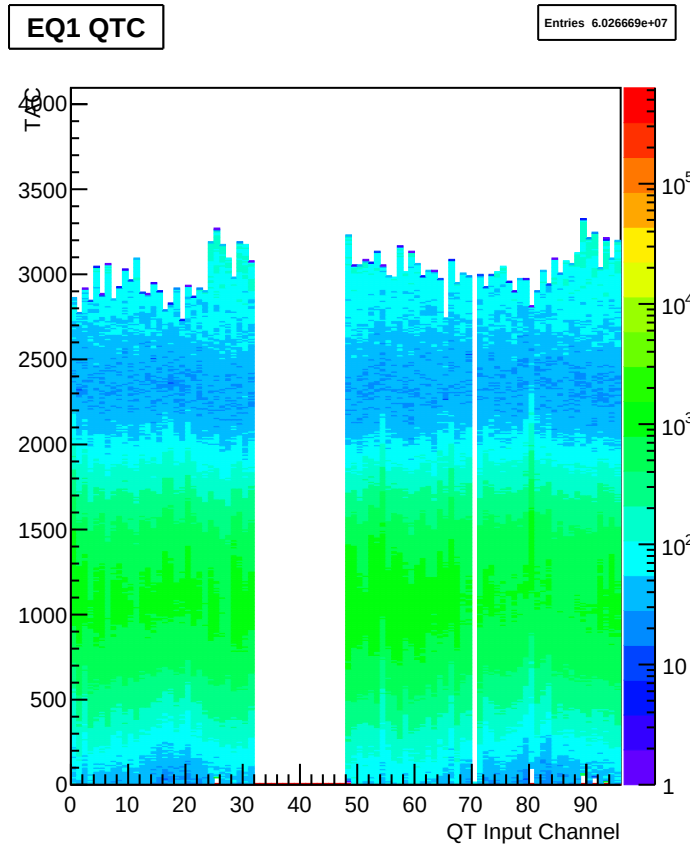

BBQ-VP002 West
Entries 1.004445e+07
ADC
QT Input Channel

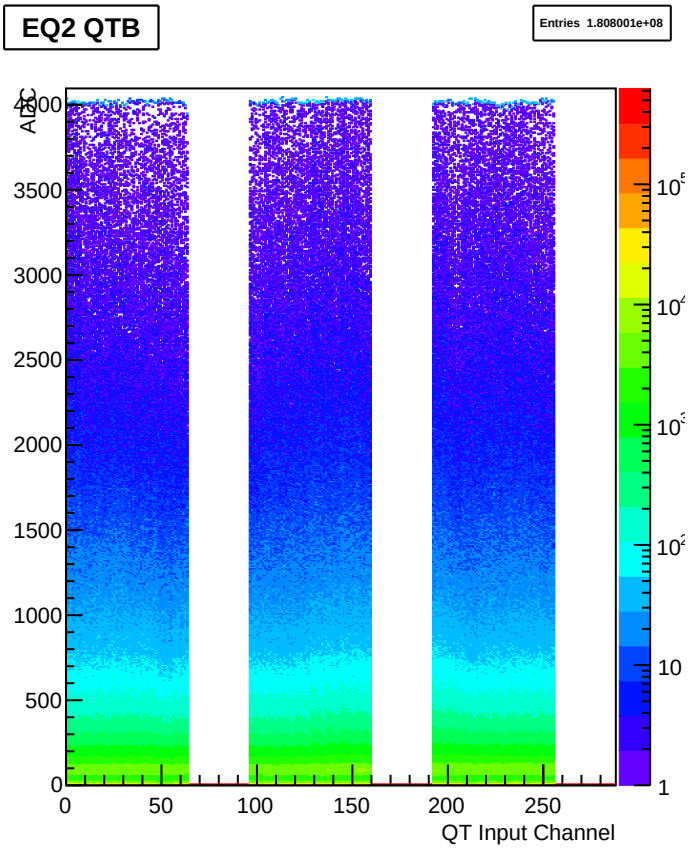

BBQ-VP002 West
Entries 1.004445e+07
TADC
QT Input Channel

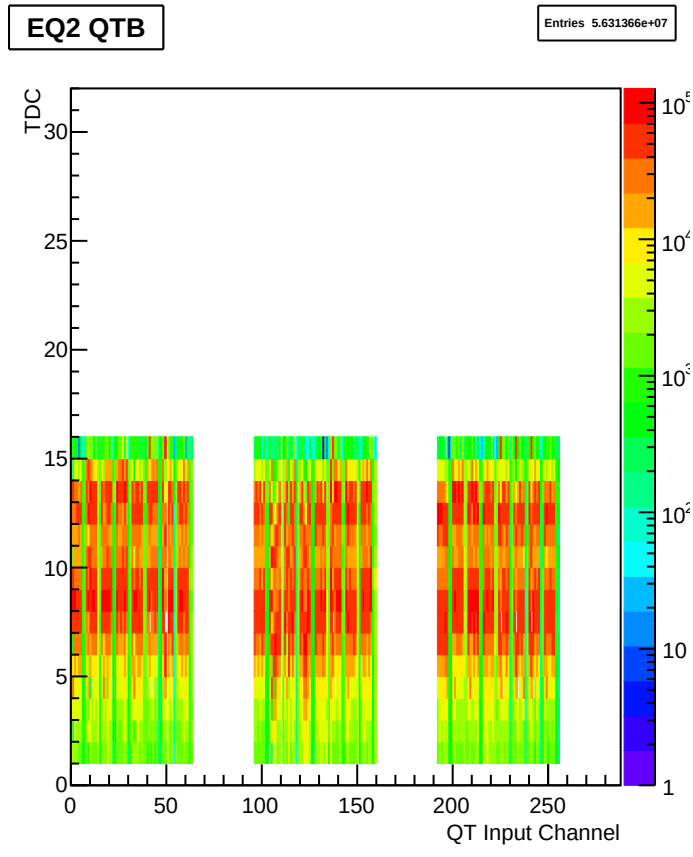

EQ1 QTB
Entries 1.808001e+08
ADC
QT Input Channel

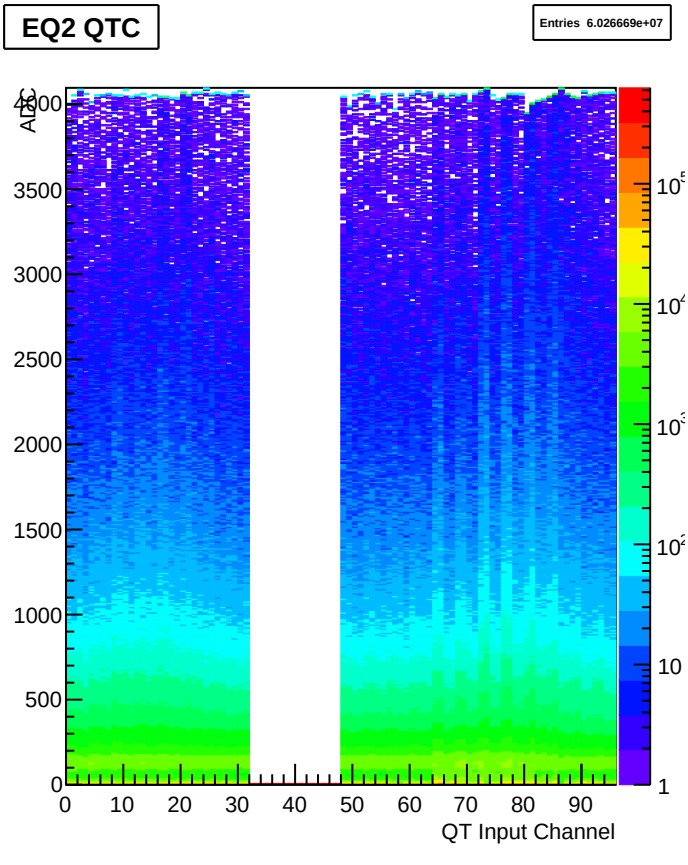

EQ1 QTB
Entries 5.826965e+07
TDC
QT Input Channel

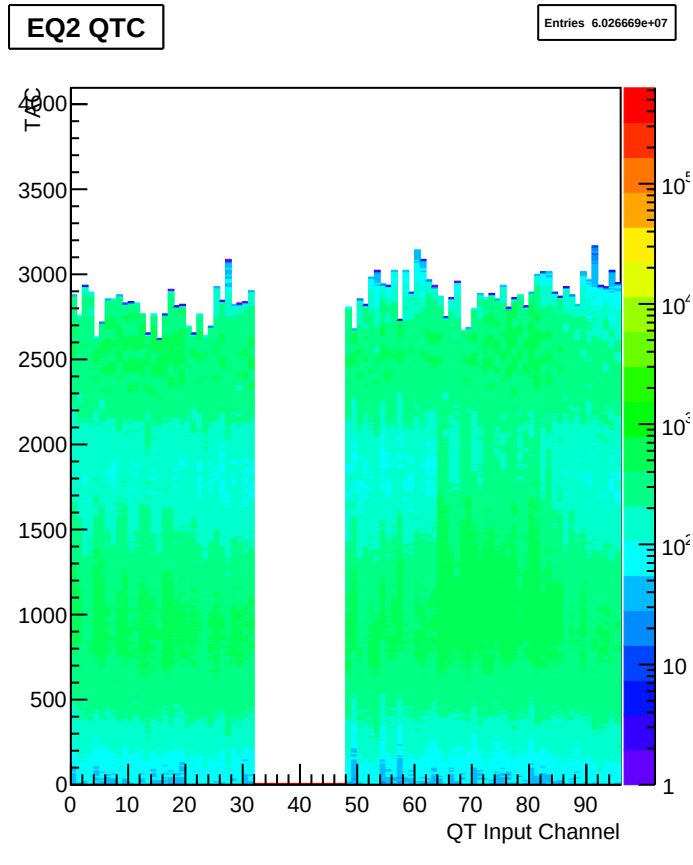

EQ1 QTC
Entries 6.026669e+07
ADC
QT Input Channel

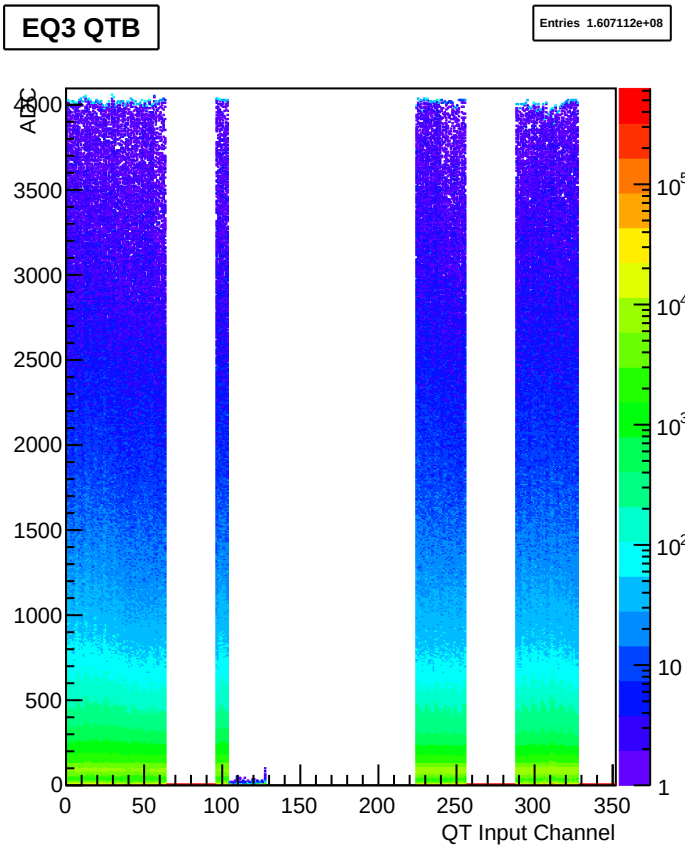

EQ1 QTC
Entries 6.026669e+07
TADC
QT Input Channel

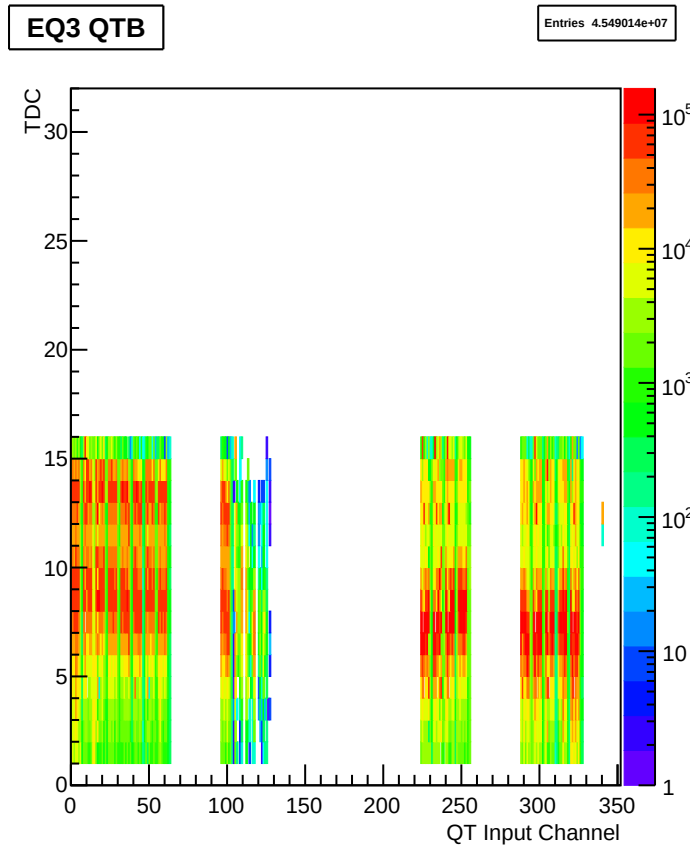

EQ2 QTB
Entries 1.808001e+08
ADC
QT Input Channel

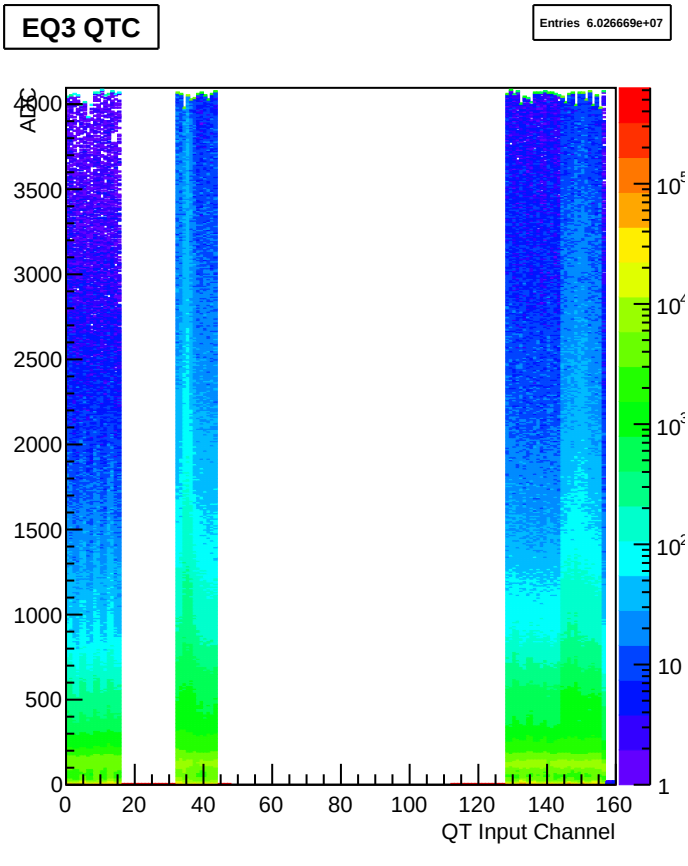

EQ2 QTB
Entries 5.631366e+07
TDC
QT Input Channel

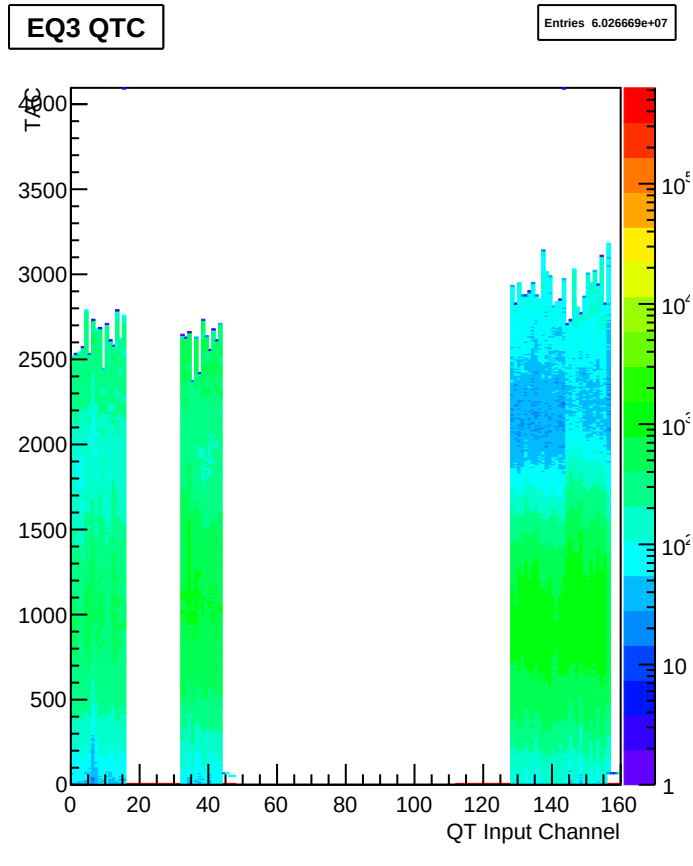

EQ2 QTC
Entries 6.026669e+07
ADC
QT Input Channel

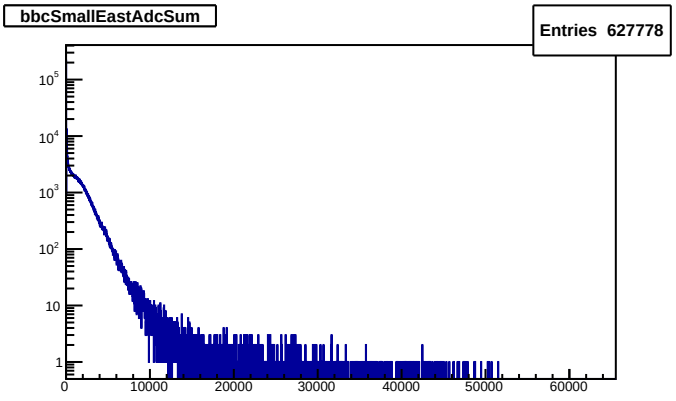

EQ2 QTC
Entries 6.026669e+07
TADC
QT Input Channel

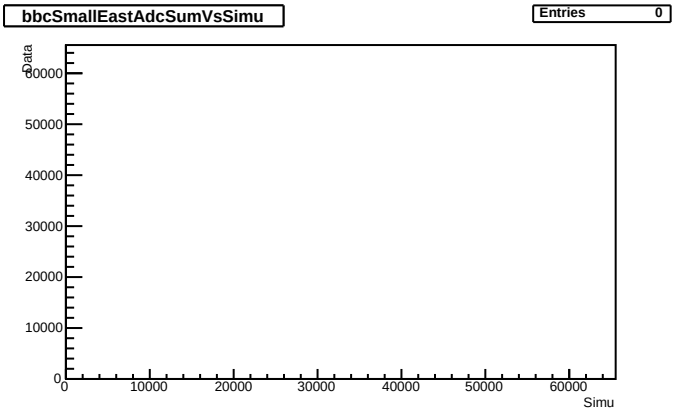

EQ3 QTB
Entries 1.607112e+08
ADC
QT Input Channel

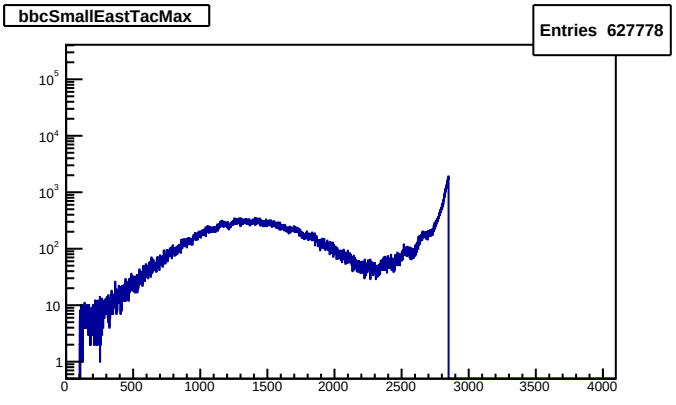

EQ3 QTB
Entries 4.549014e+07
TDC
QT Input Channel

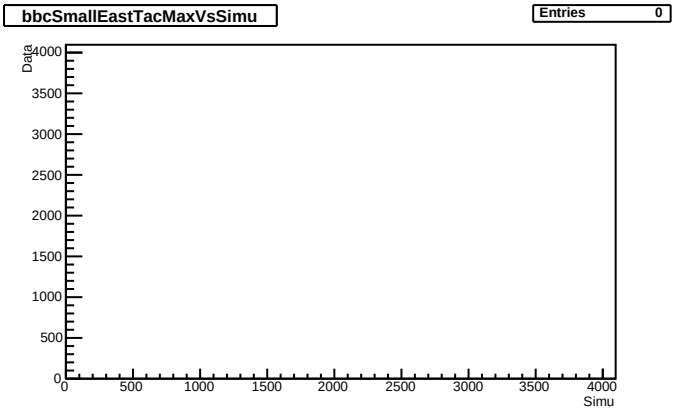

EQ3 QTC
Entries 6.026669e+07
ADC
QT Input Channel


EQ3 QTC
Entries 6.026669e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 627778


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 627778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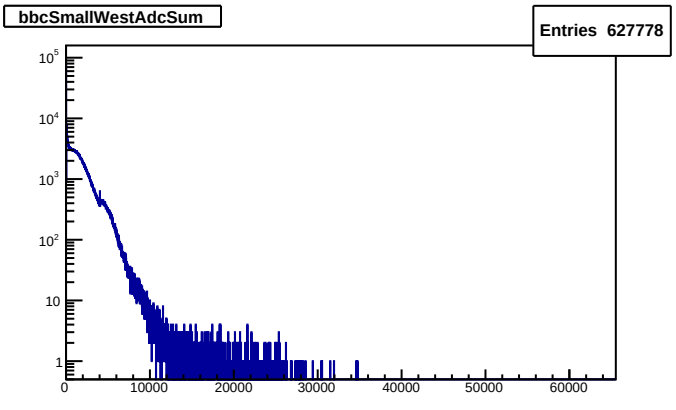
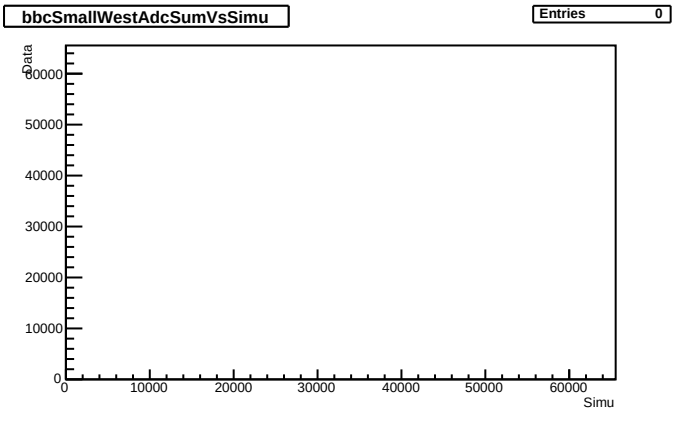
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries 627778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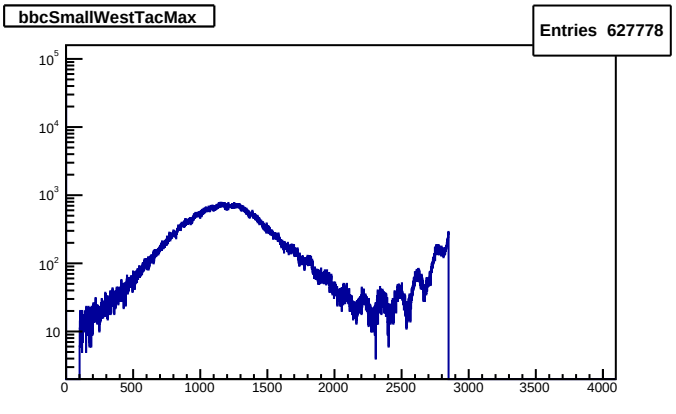
Entries 0
Data
Simu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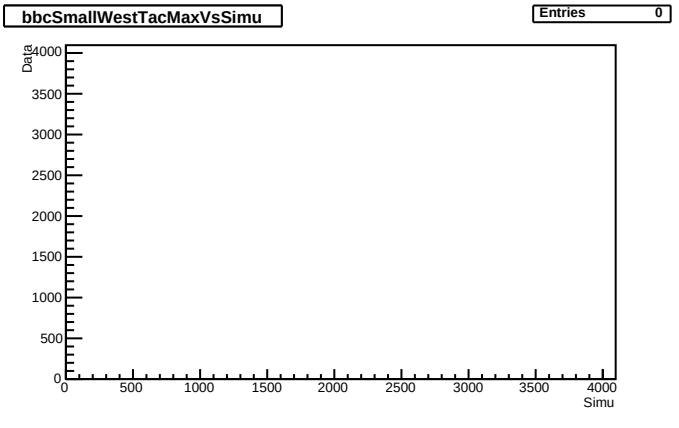
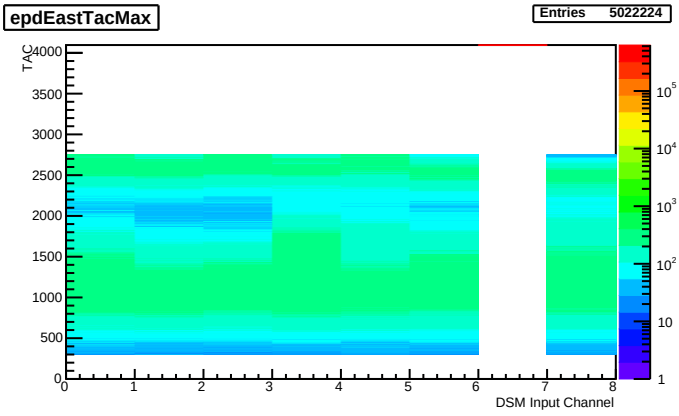
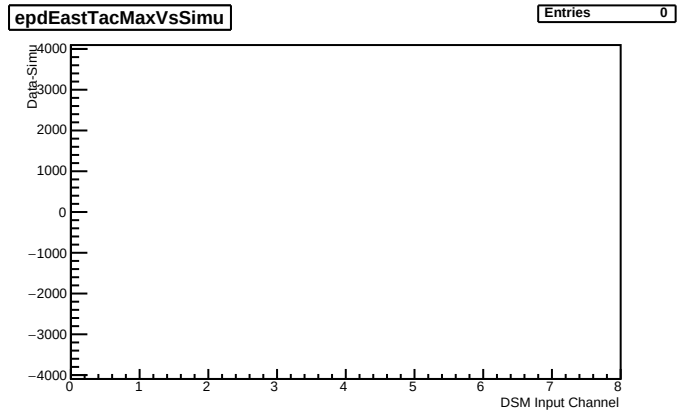
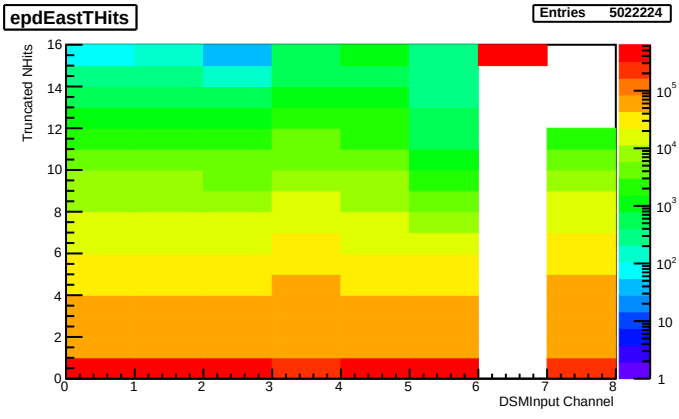
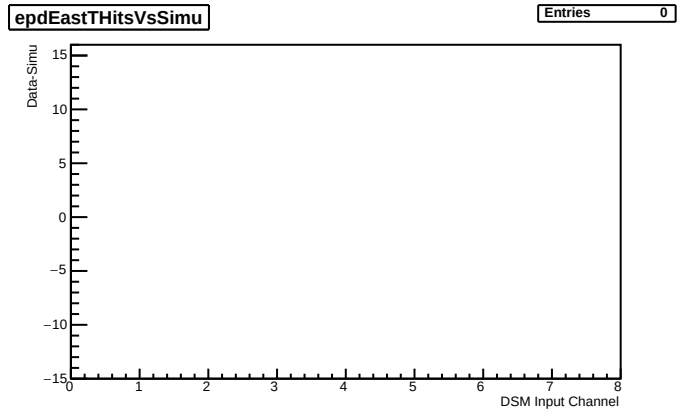
Entries 627778


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 5022224
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 5022224
Truncated NHits
DSMInput Channel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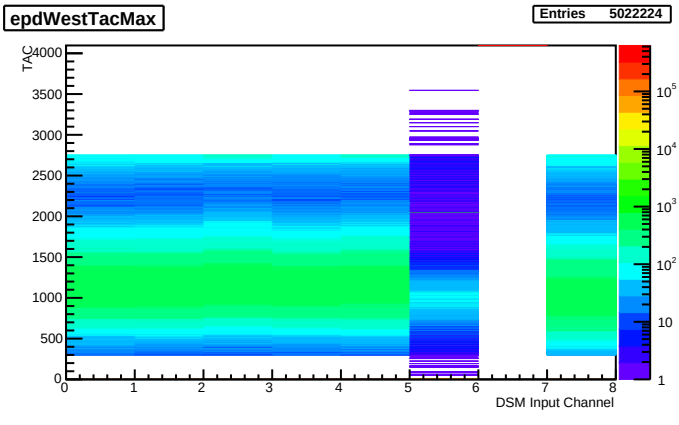
Data-Simu
DSM Input Channel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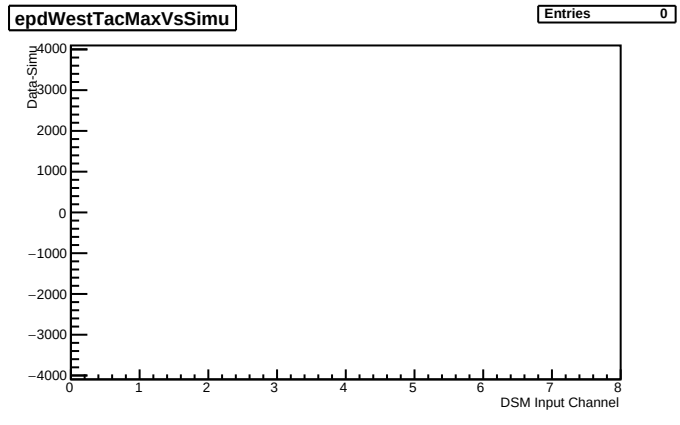
Entries 5022224
TAC
DSM Input Channel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Entries 0
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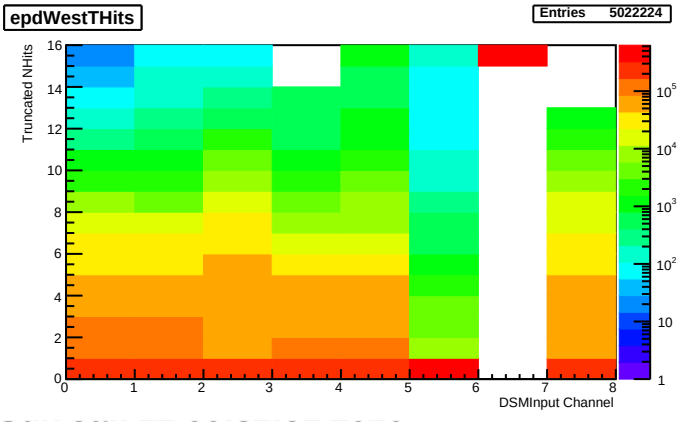
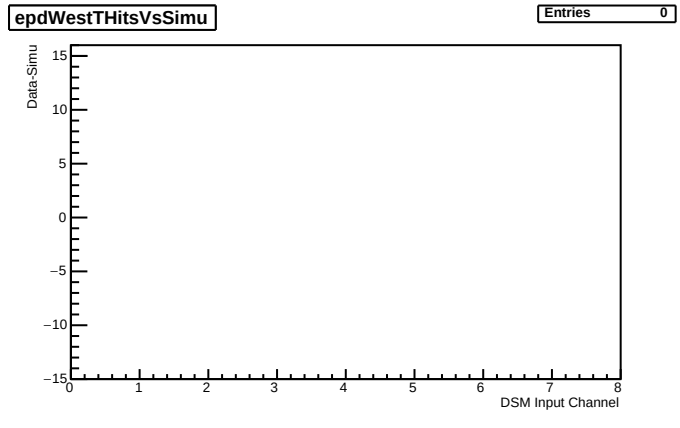
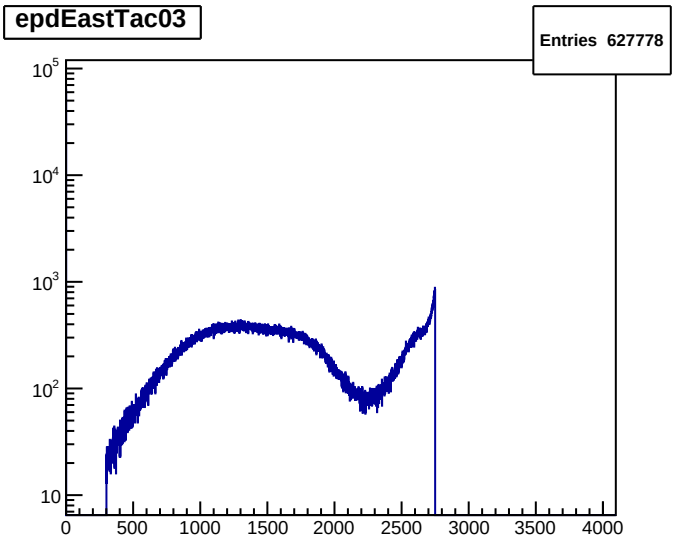
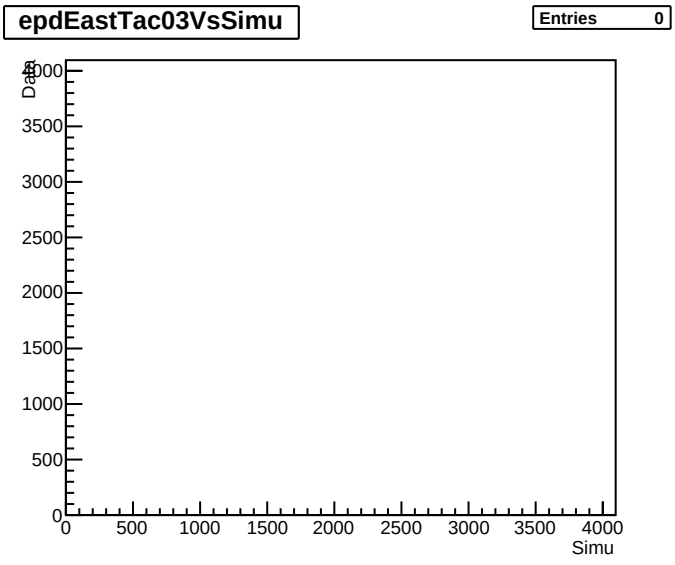
DSM Input Channel


epdWestTHits
Entries 5022224
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 627778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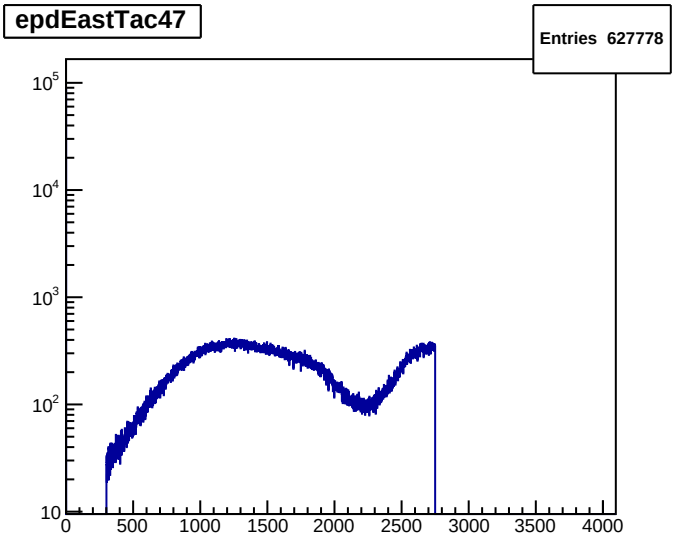
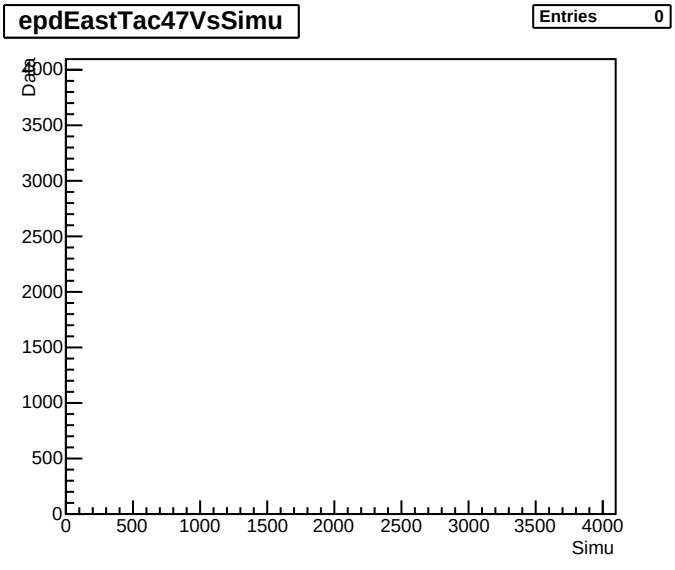
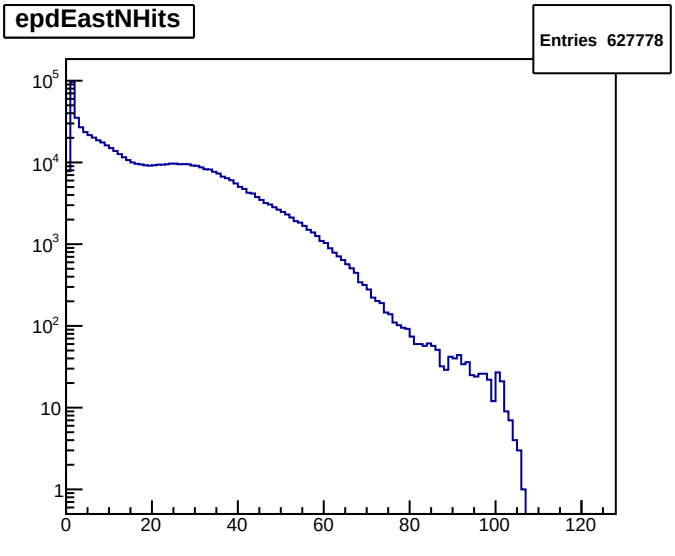
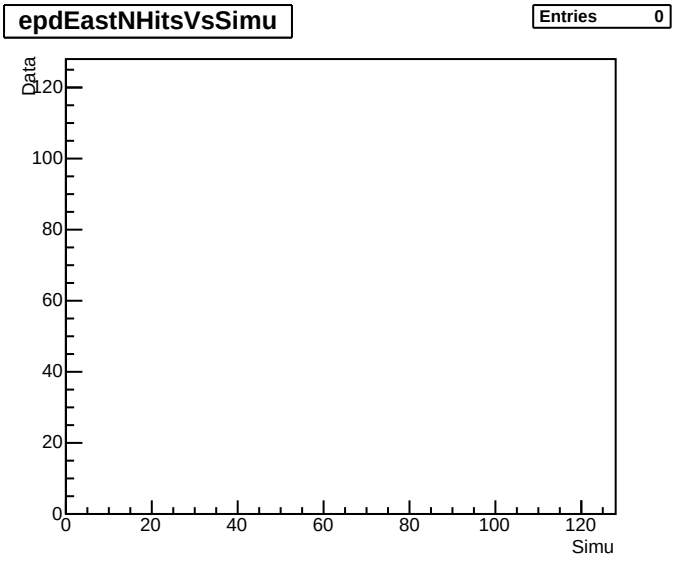
Entries 0
Data
Simu


epdEastTac47
Entries 627778


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 627778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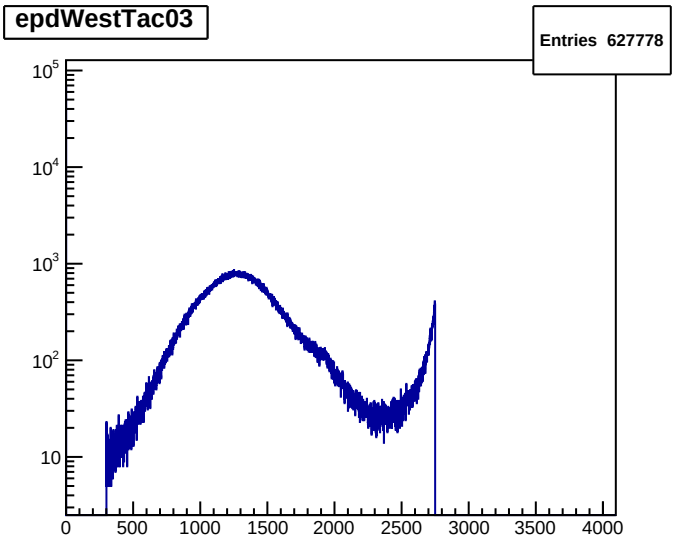
Data
Simu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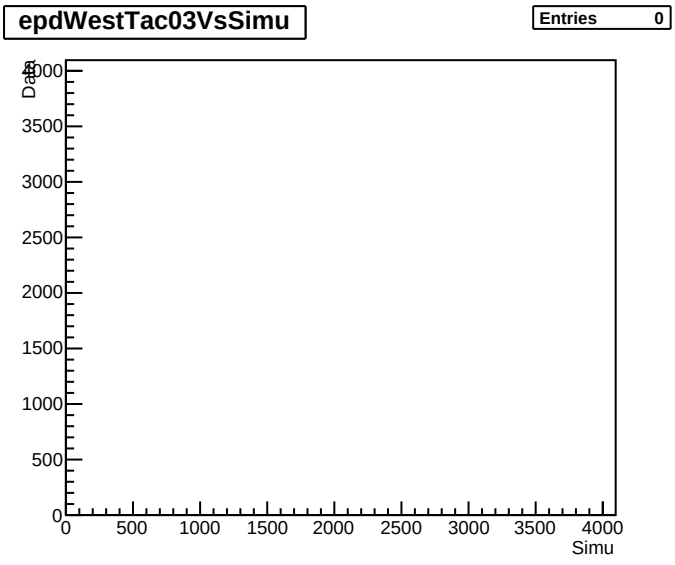
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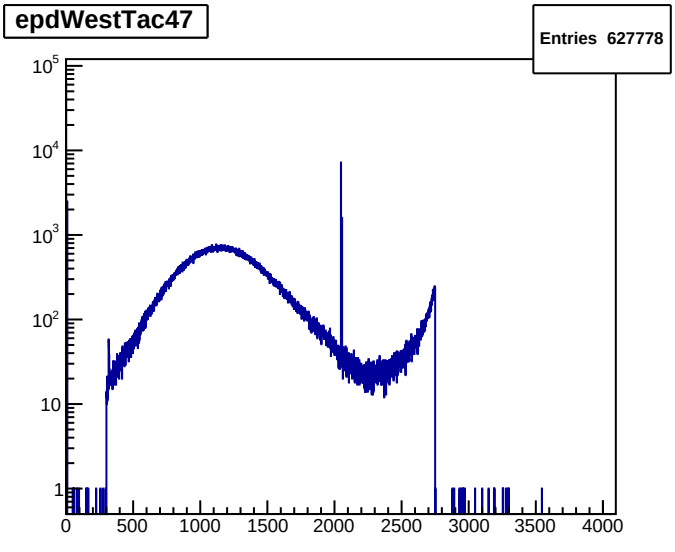
Entries 0
Data
Simu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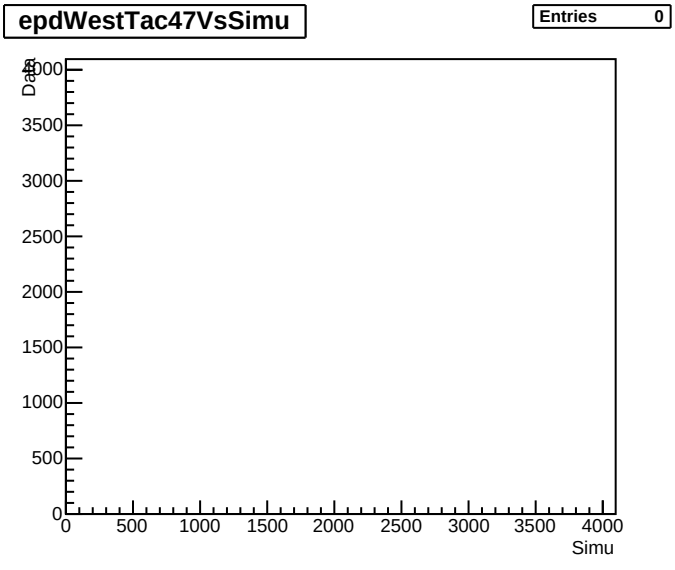
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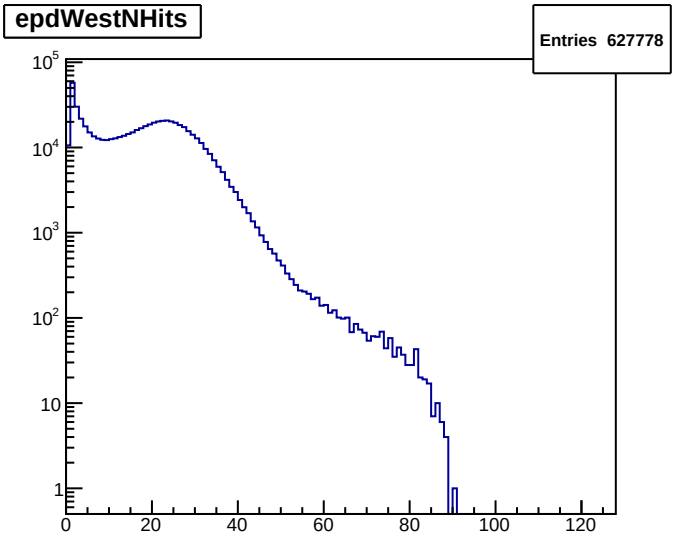
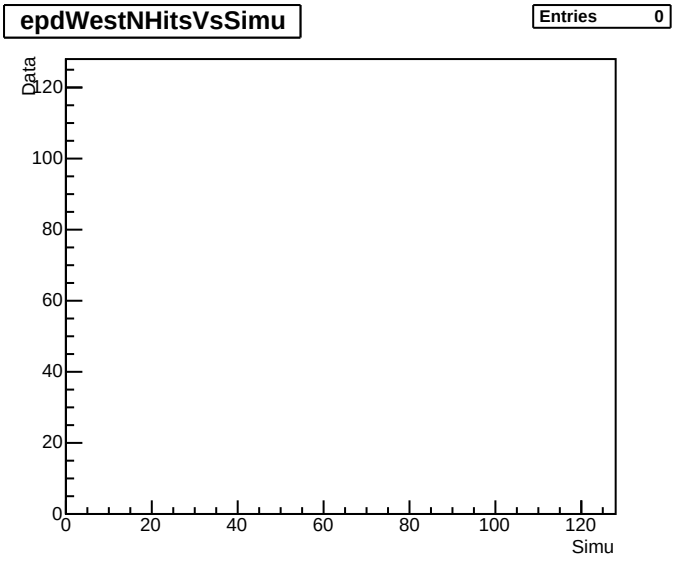
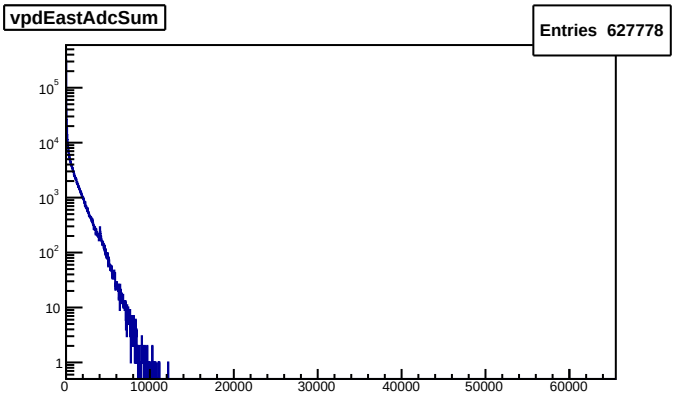
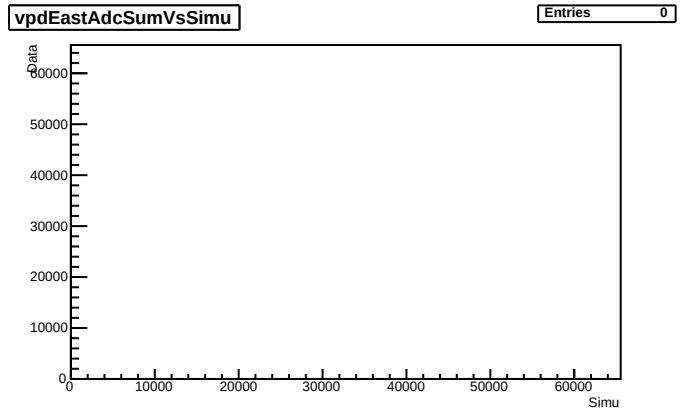
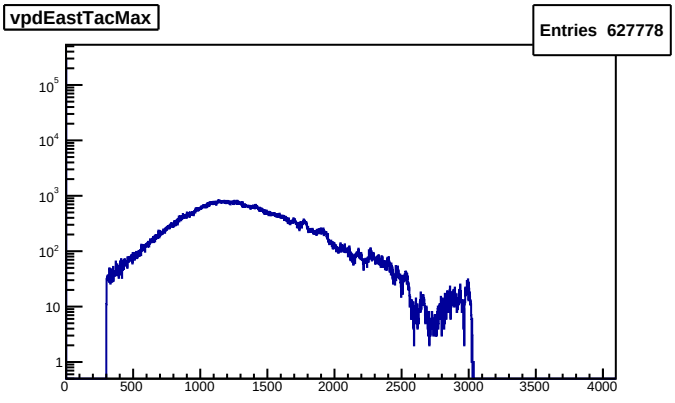
Entries 0
Data
Simu

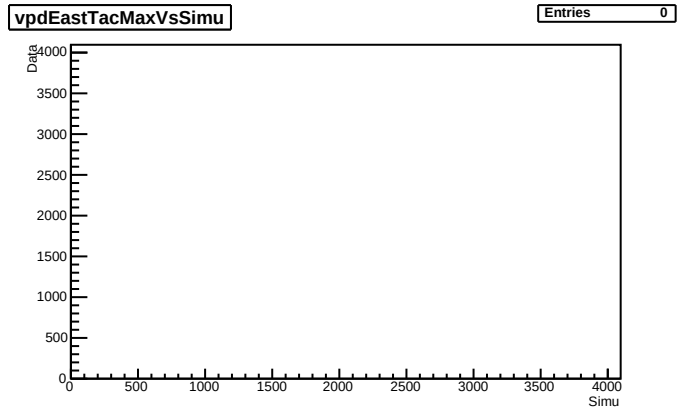

epdWestNHits
Entries 627778


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 627778


vpdEastAdcSumVsSimu
Entries 0
Data
Simu


vpdEastTacMax
Entries 627778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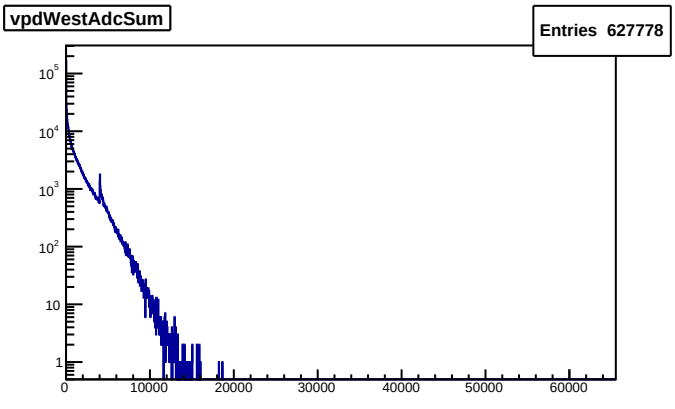
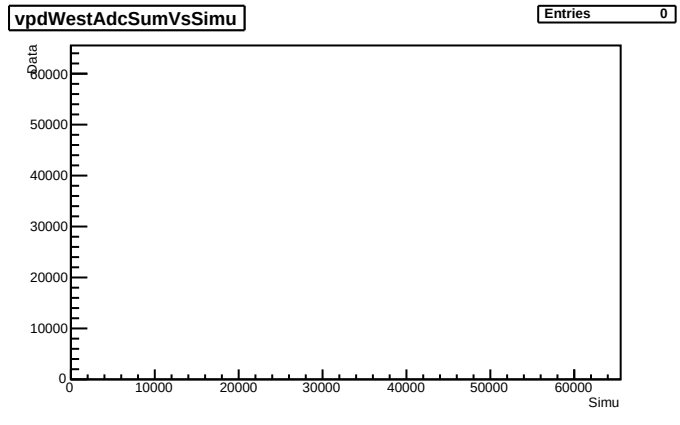
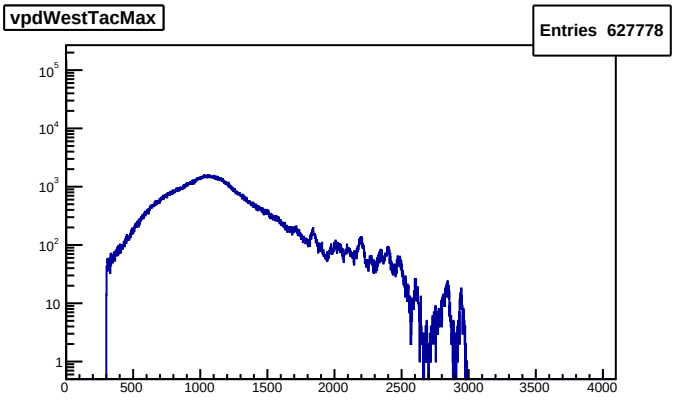
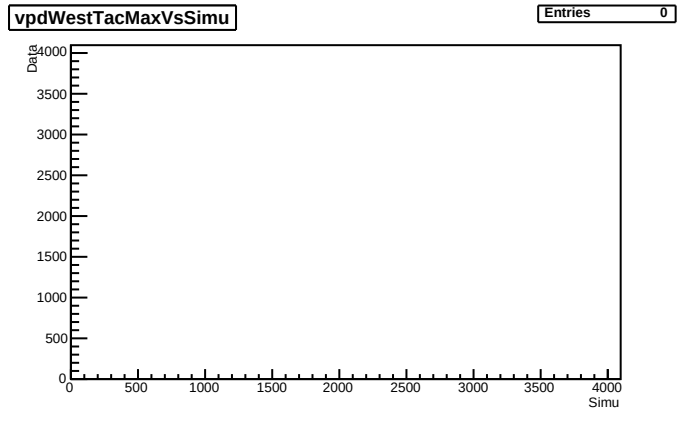
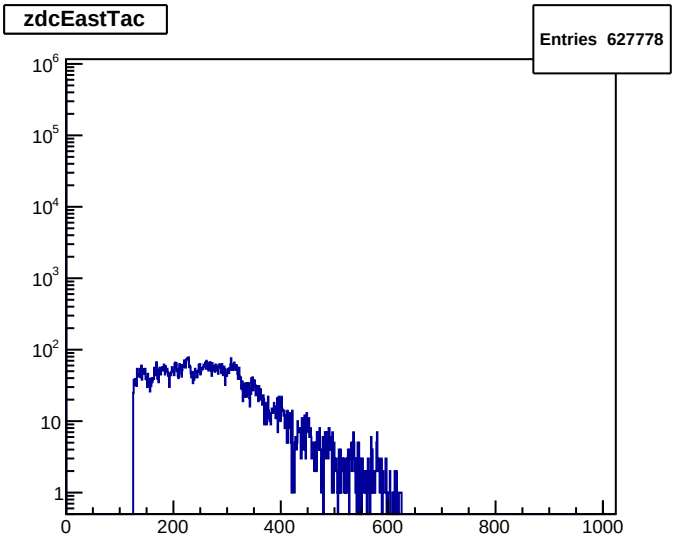
Entries 0
Data
Simu

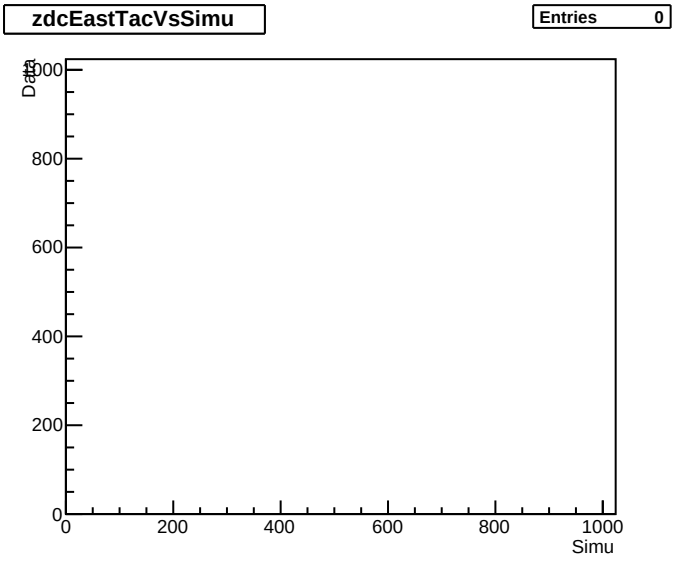

vpdWestAdcSum
Entries 627778

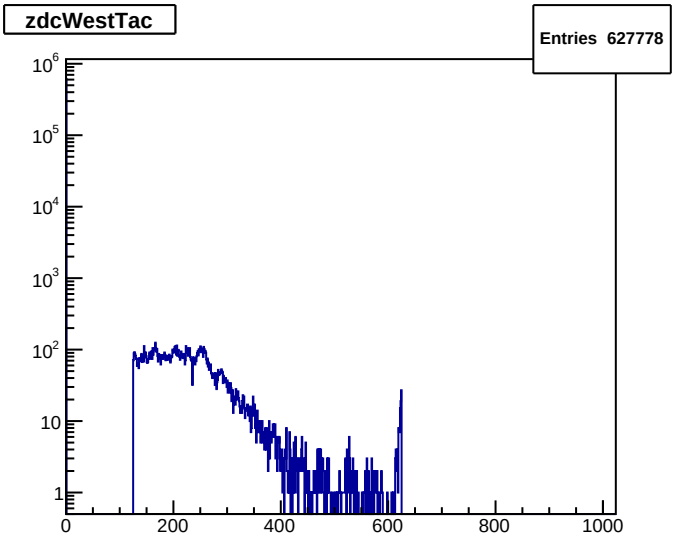

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

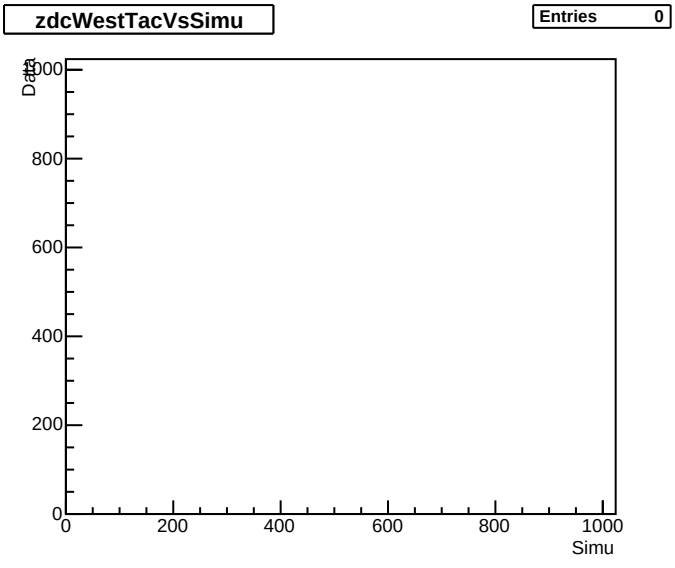

vpdWestTacMax
Entries 627778

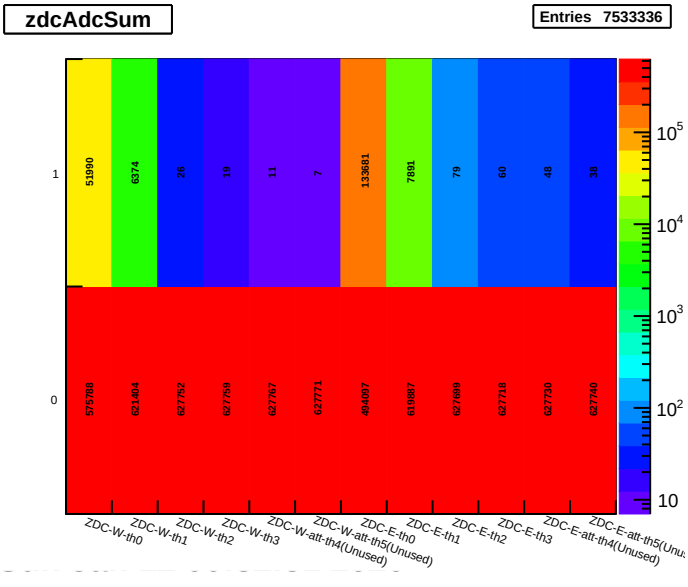

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

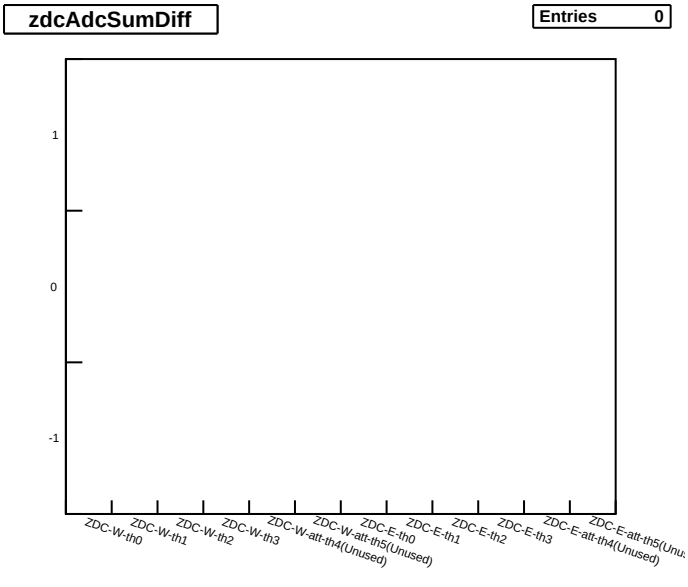

zdcEastTac
Entries 627778

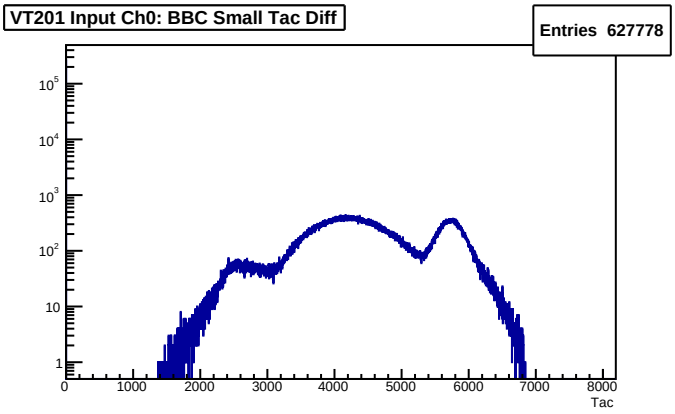

zdcEastTacVsSimu
Entries 0
Data
Simu

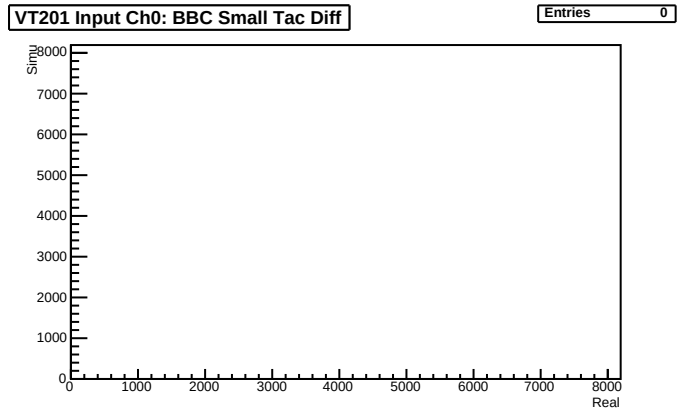

zdcWestTac
Entries 627778

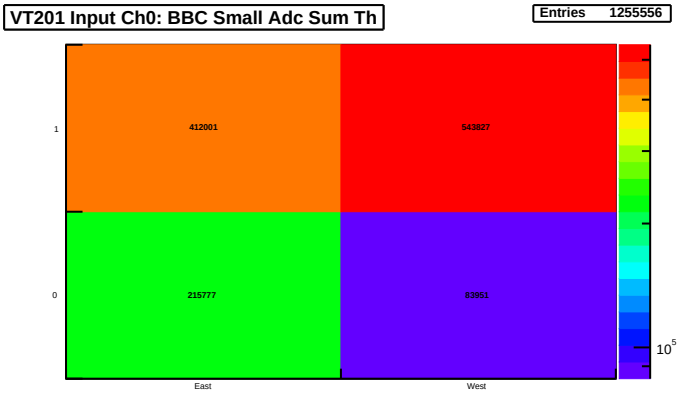

zdcWestTacVsSimu
Entries 0
Data
Simu

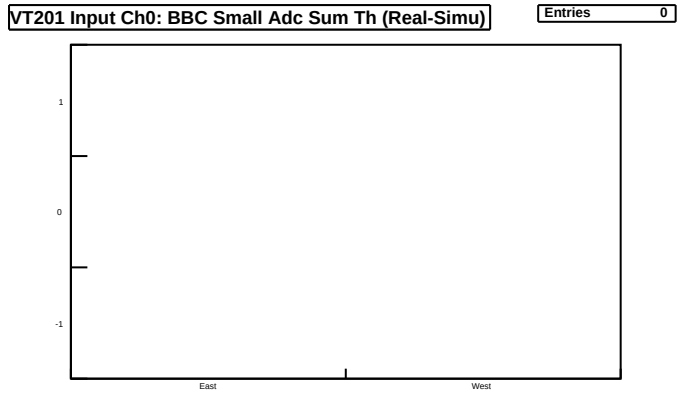

zdcAdcSum
Entries 7533336
51990
6374
26
19
11
7
133681
7891
79
60
48
38
575788
621404
627752
627759
627767
627771
494097
619887
627699
627718
627730
627740
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

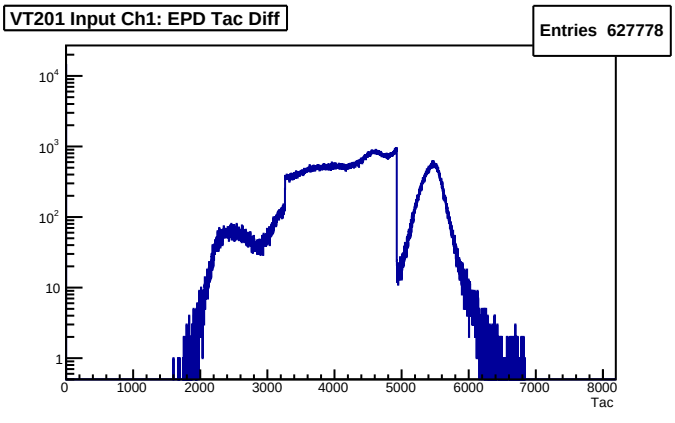

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

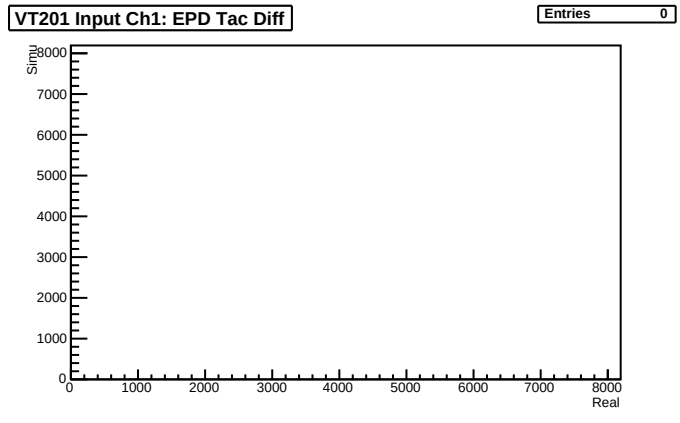

VT201 Input Ch0: BBC Small Tac Diff
Entries 627778
Tac

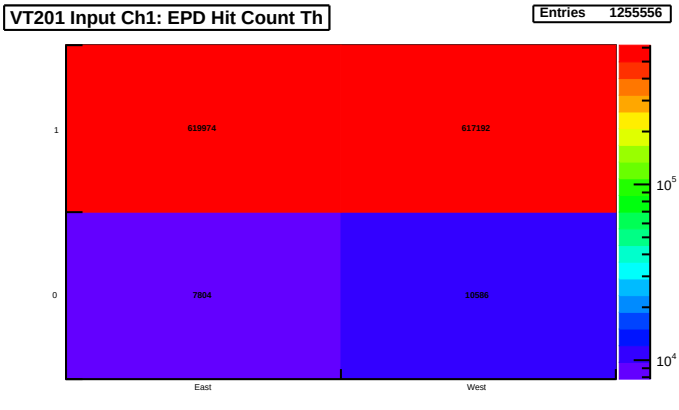

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

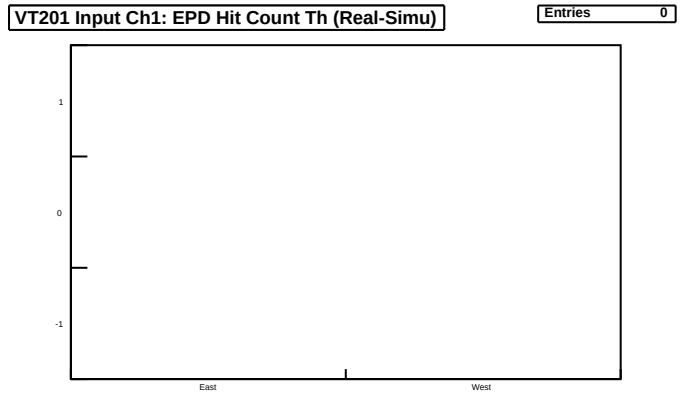

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1255556
412001
543827
215777
83951
East
West

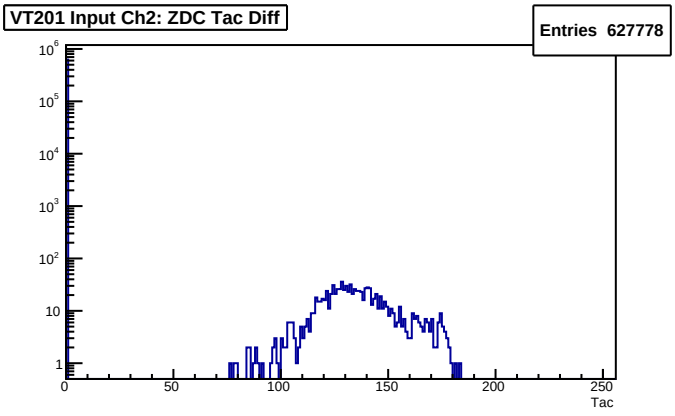

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

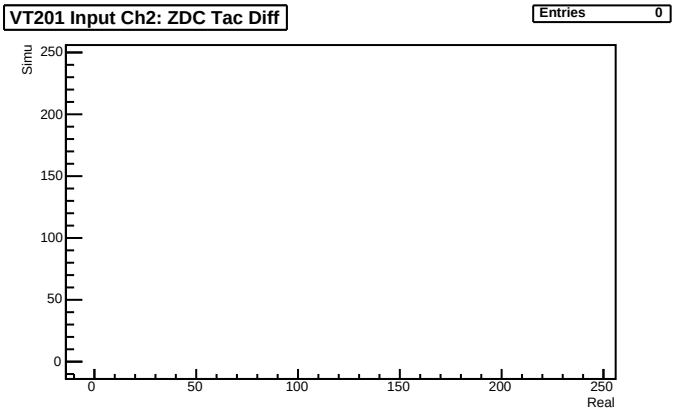

VT201 Input Ch1: EPD Tac Diff
Entries 627778
Tac

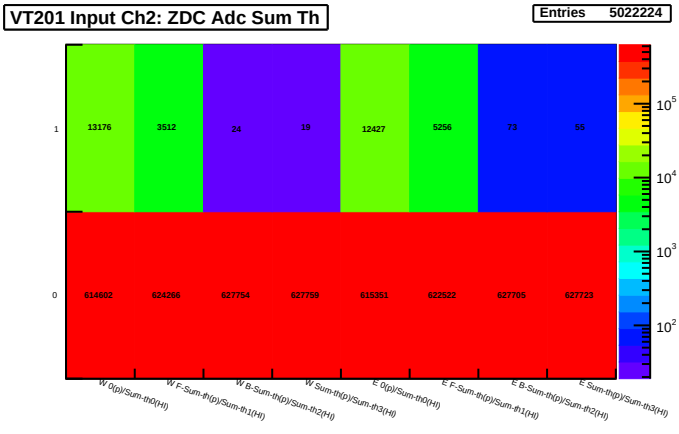

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

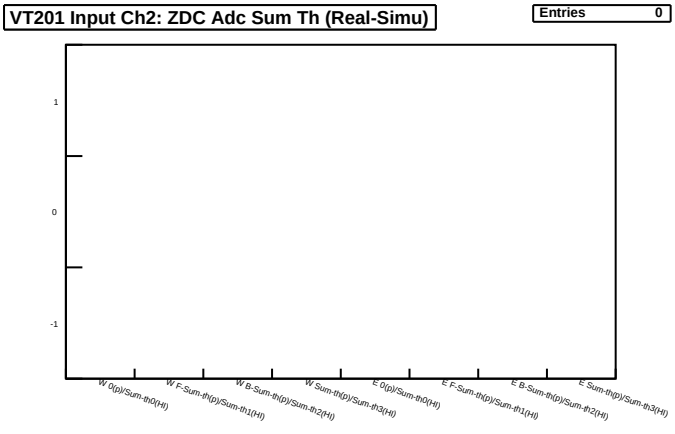

VT201 Input Ch1: EPD Hit Count Th
Entries 1255556
619974
617192
7804
10586
East
West

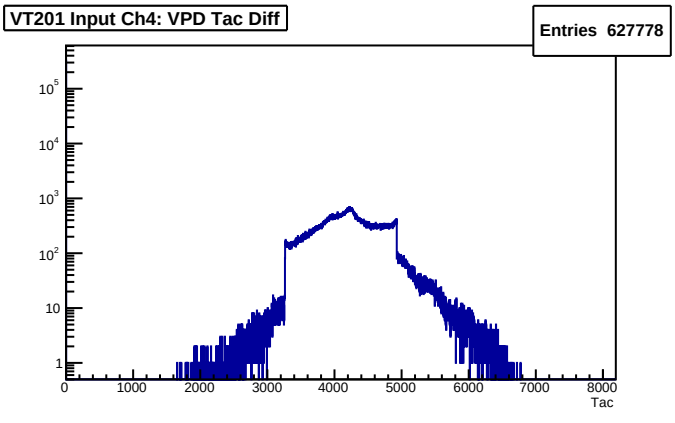

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

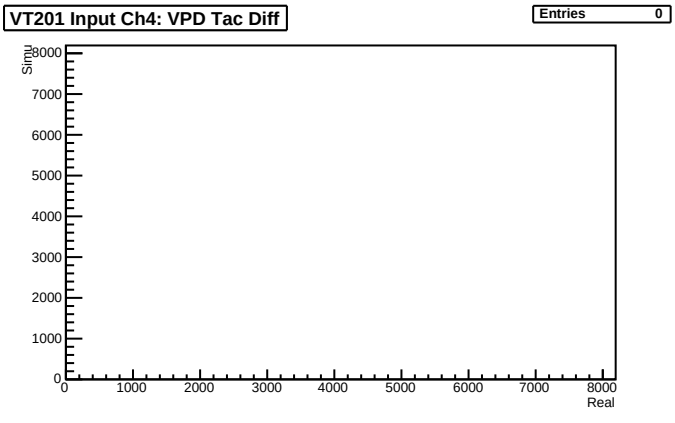

VT201 Input Ch2: ZDC Tac Diff
Entries 627778
Tac

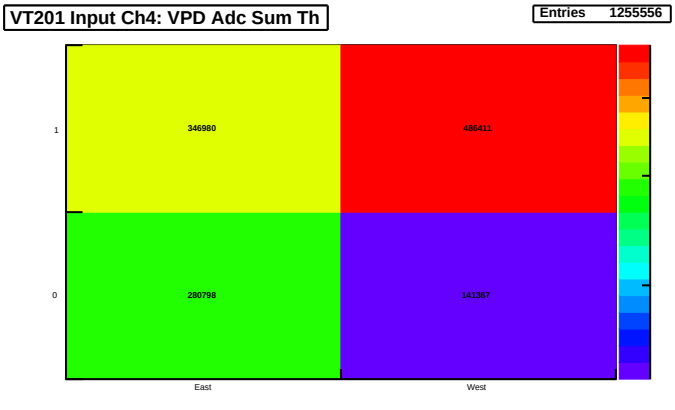

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

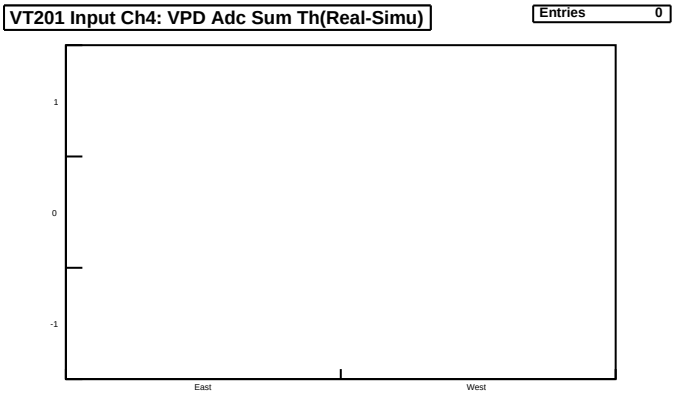

VT201 Input Ch2: ZDC Adc Sum Th
Entries 5022224
13176
3512
24
19
12427
5256
73
55
614602
624266
627754
627759
615351
622522
627705
627723
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

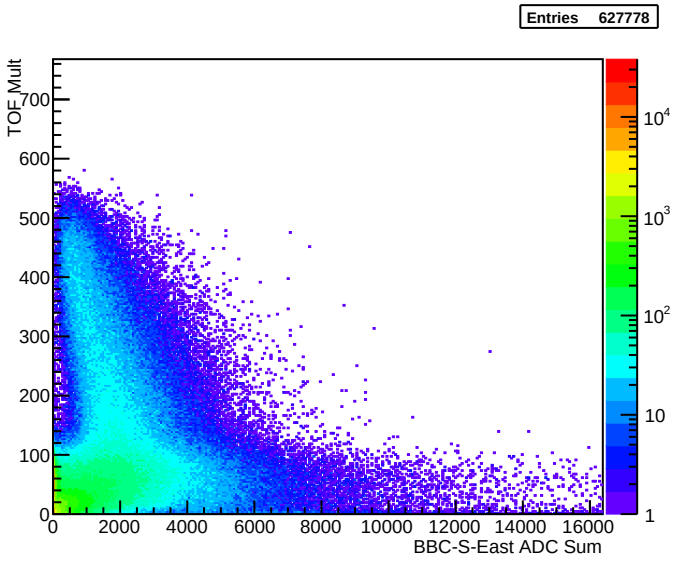

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

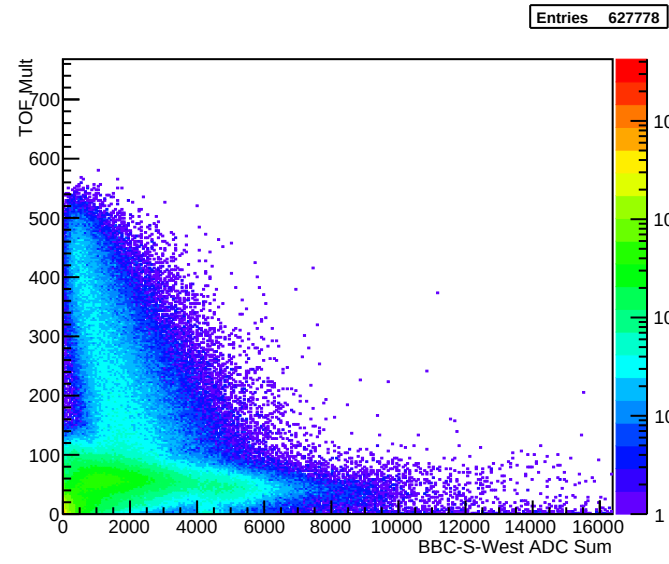

VT201 Input Ch4: VPD Tac Diff
Entries 627778
Tac

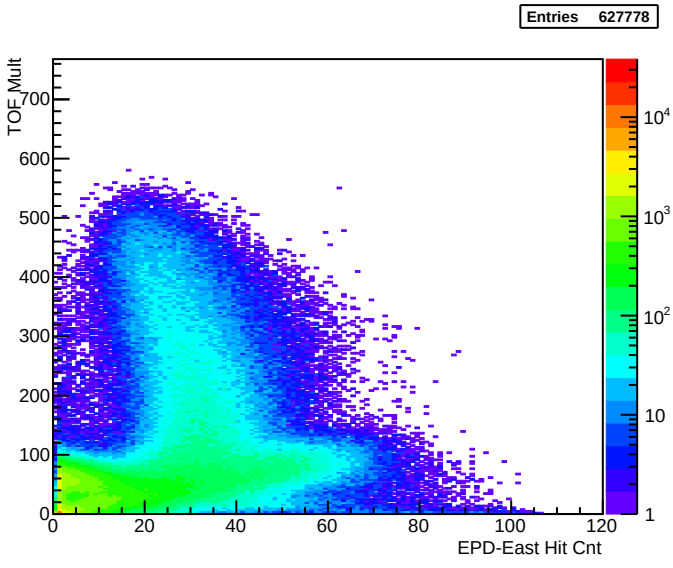

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

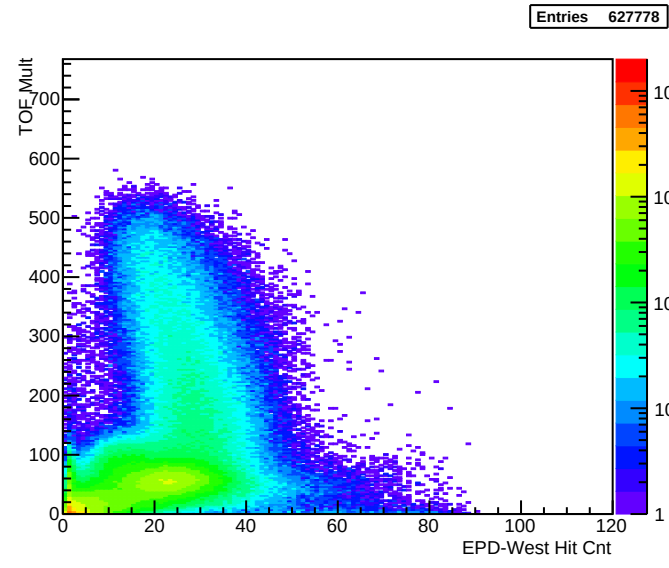

VT201 Input Ch4: VPD Adc Sum Th
Entries 1255556
346980
486411
280798
141367
East
West

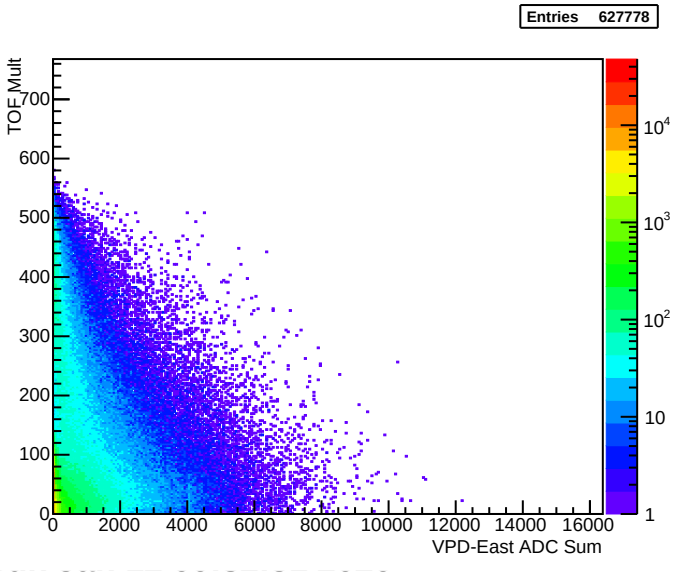

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

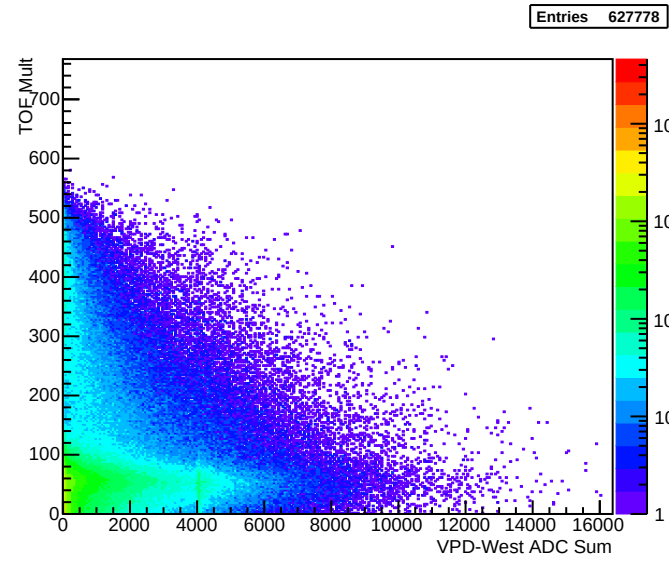

Entries 627778
TOF_Mult
BBC-S-East ADC Sum

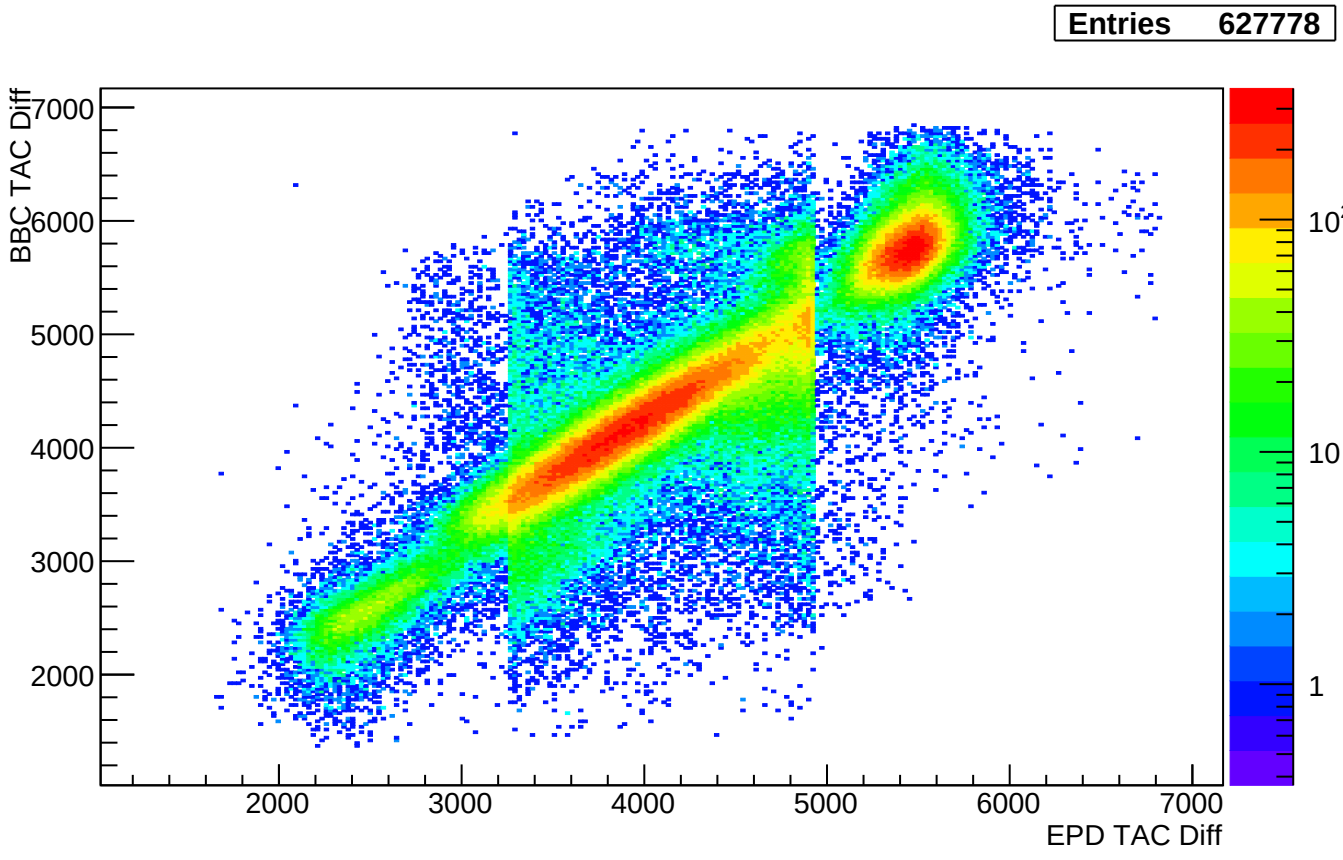

Entries 627778
TOF_Mult
BBC-S-West ADC Sum

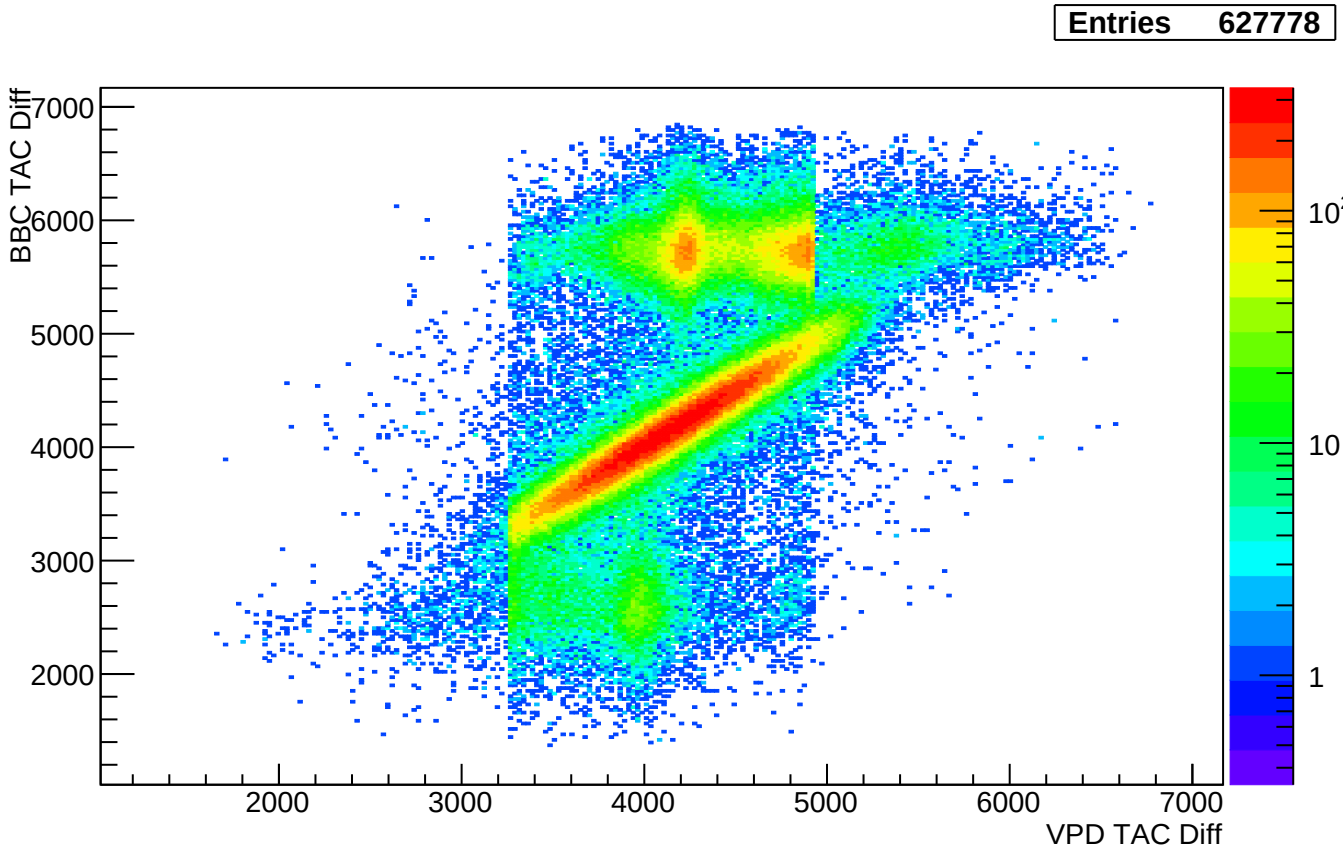

Entries 627778
TOF_Mult
EPD-East Hit Cnt

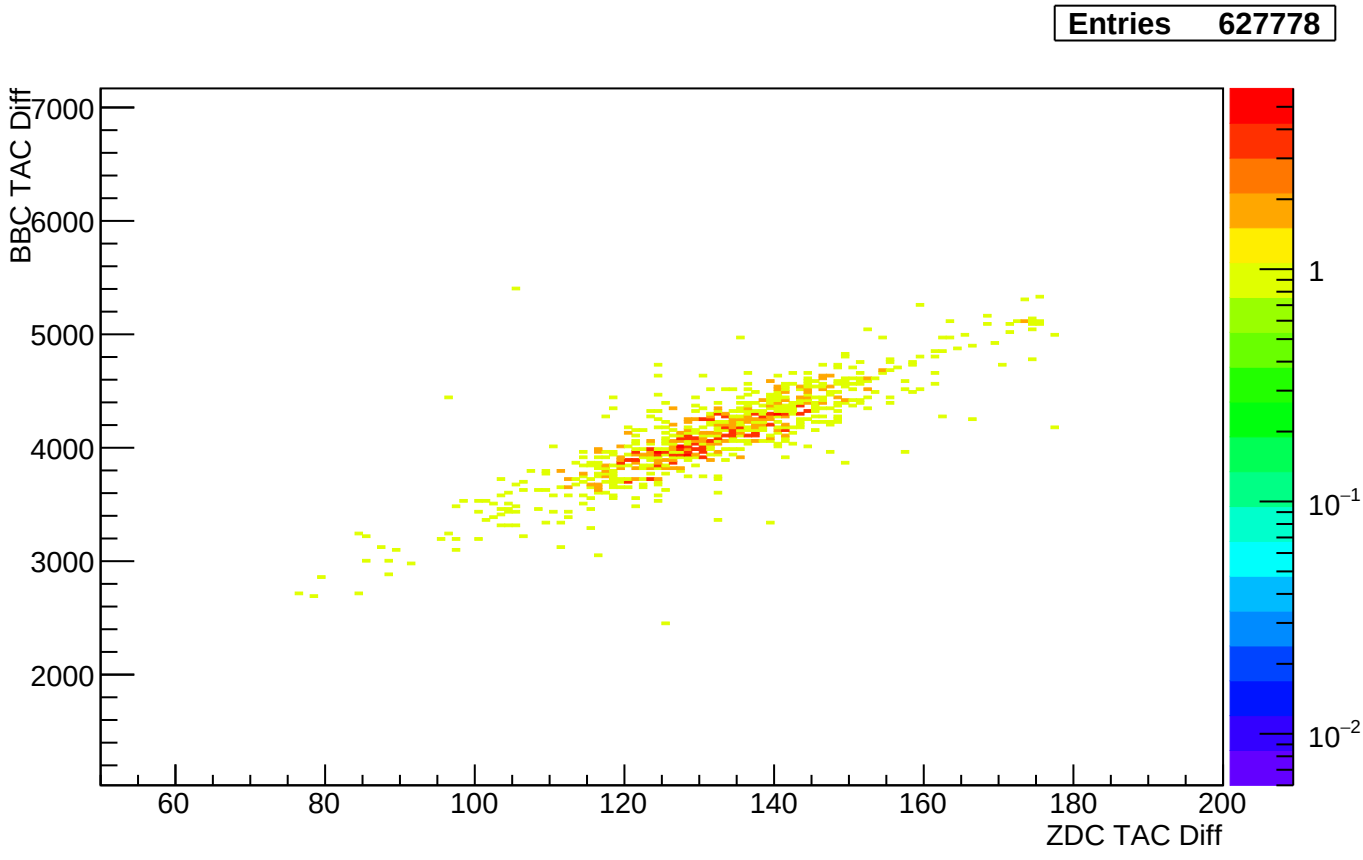

Entries 627778
TOF_Mult
EPD-West Hit Cnt

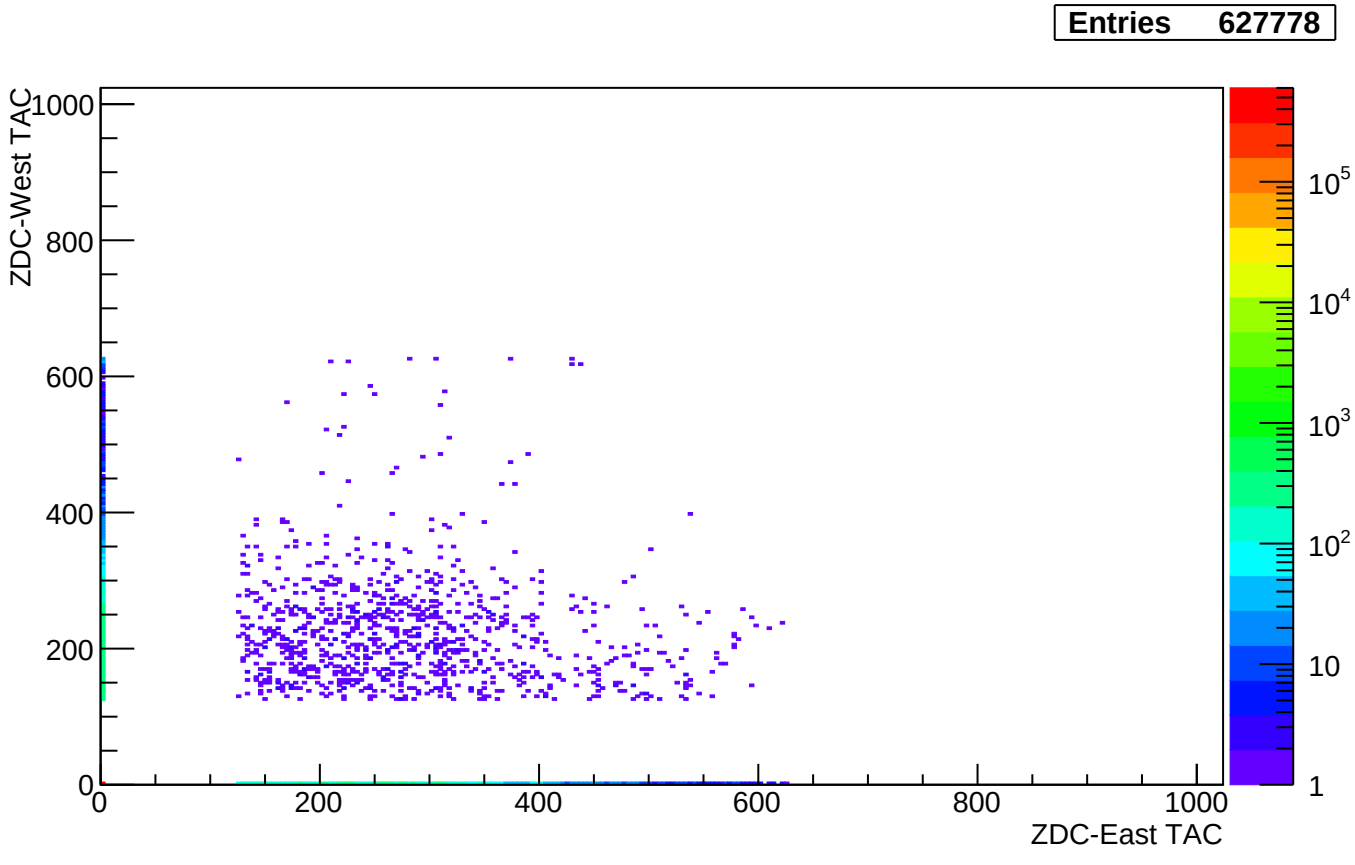

Entries 627778
TOF_Mult
VPD-East ADC Sum

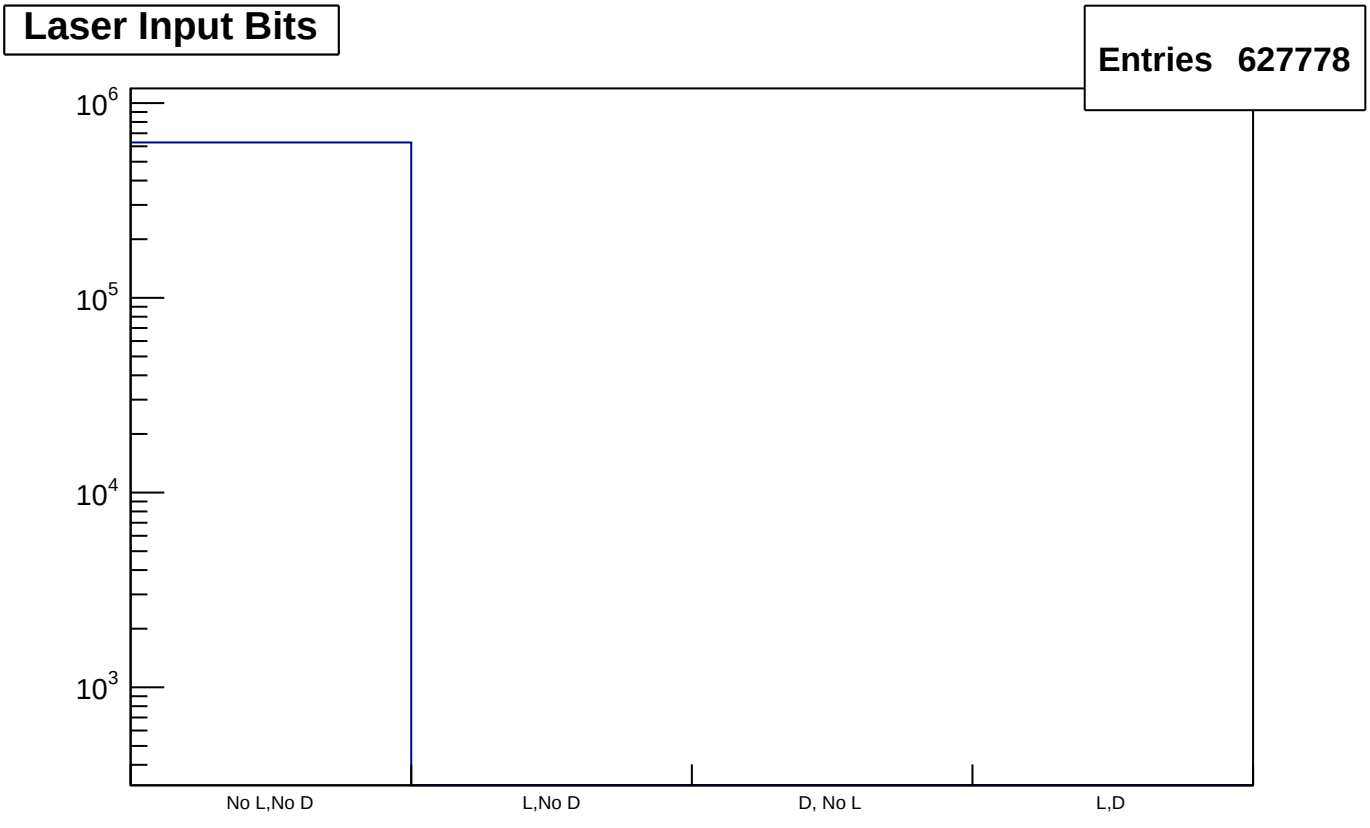

Entries 627778
TOF_Mult
VPD-West ADC Sum

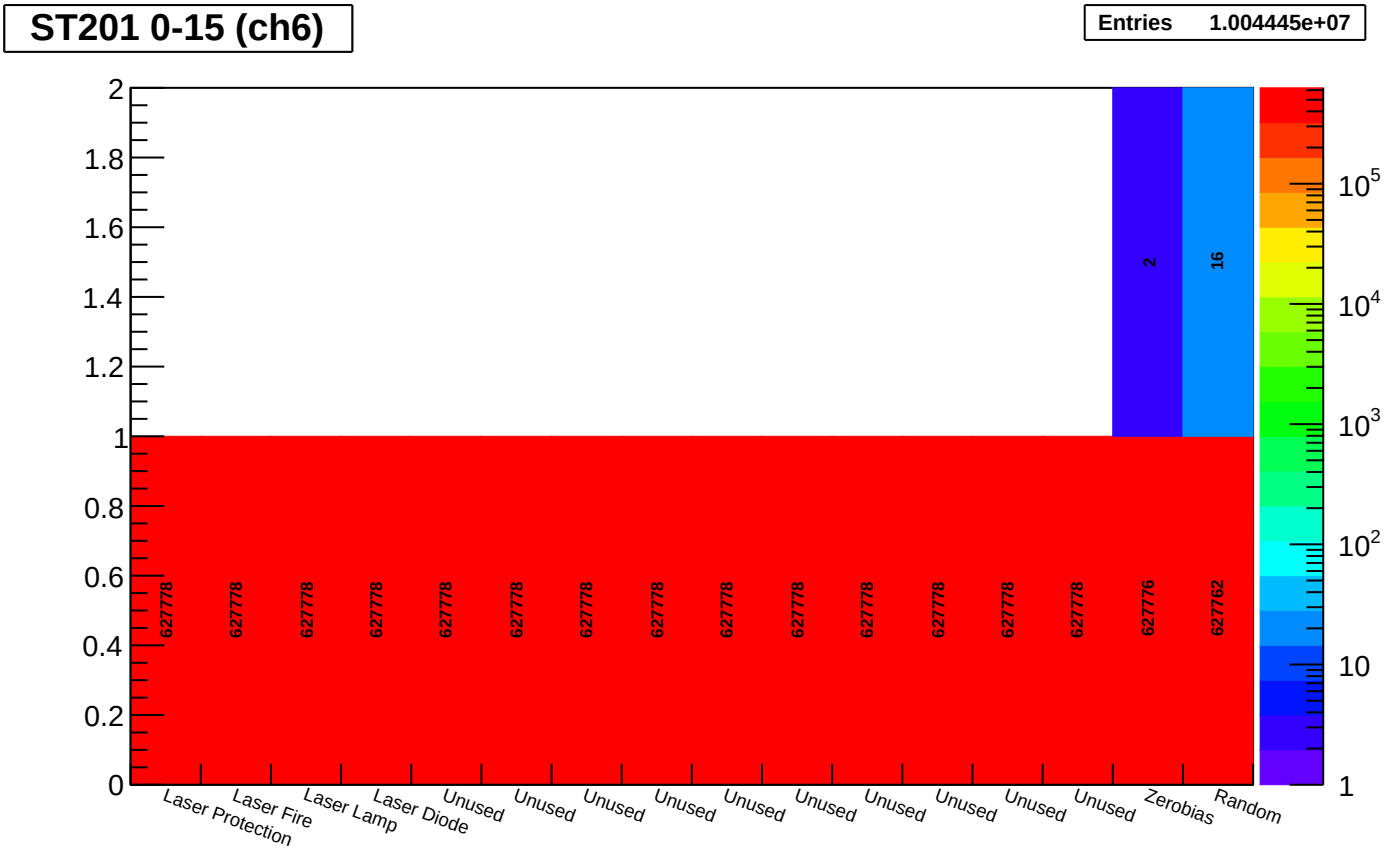

Entries 627778
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

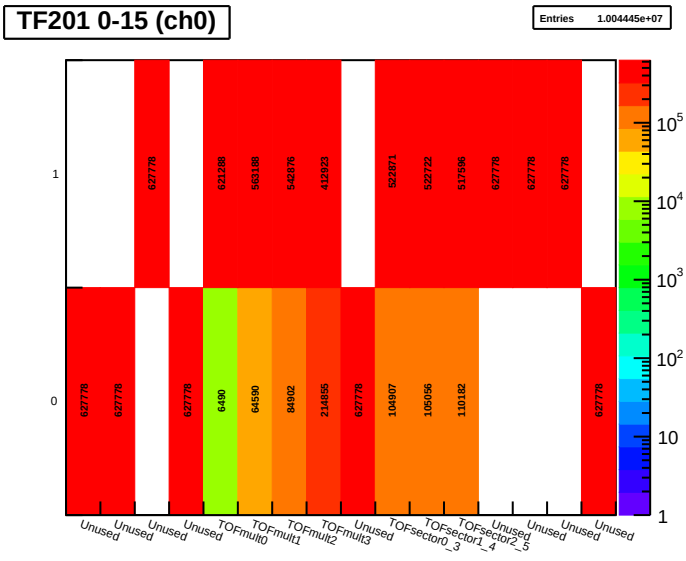

Entries 627778
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

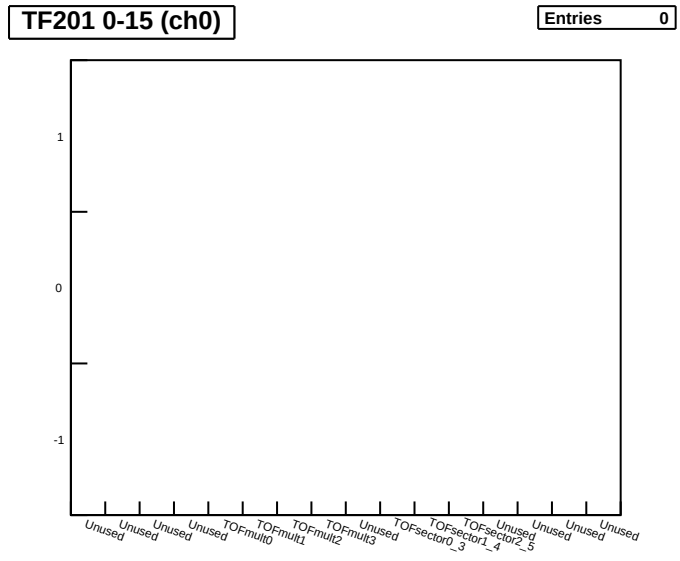

Entries 627778
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

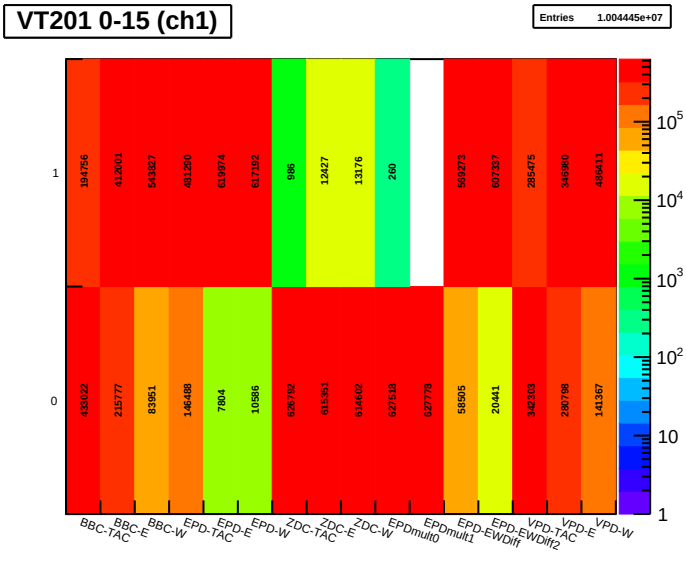

Entries 627778
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

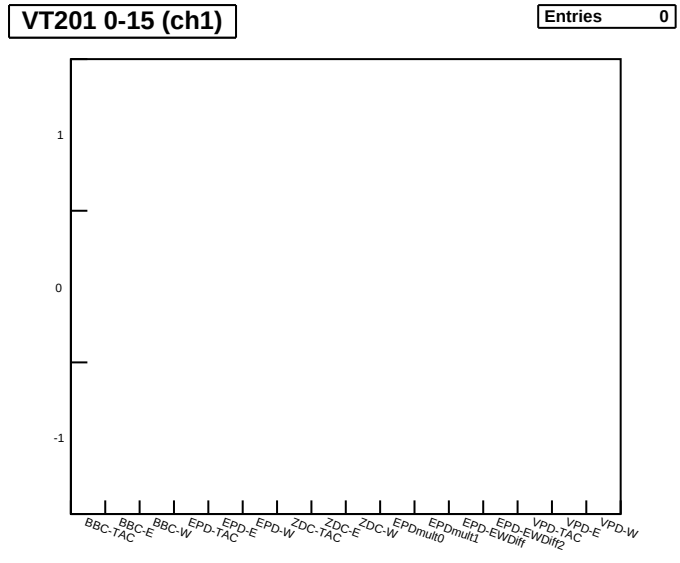

Laser Input Bits
Entries 627778
10^6
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

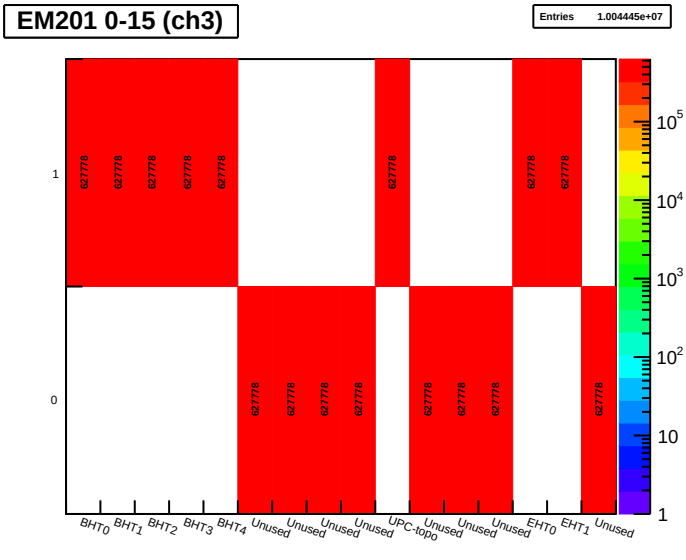

ST201 0-15 (ch6)
Entries 1.004445e+07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627776
627762
2
16
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

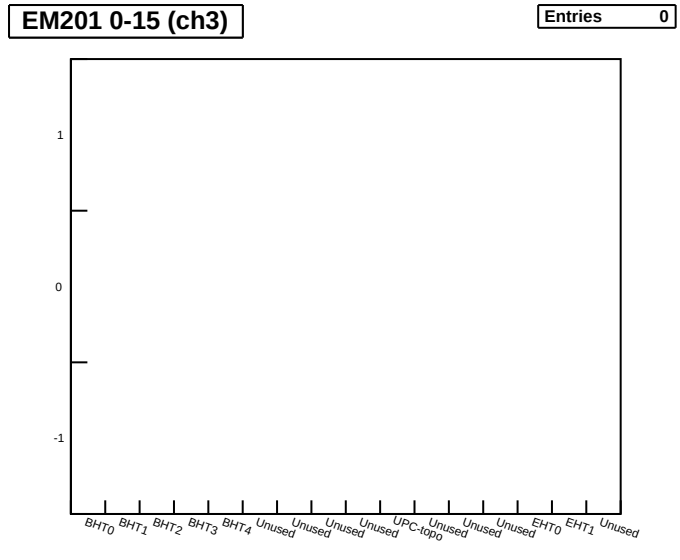

TF201 0-15 (ch0)
Entries 1.004445e+07
1
0
627778
621288
583188
542876
412923
522871
522722
517596
627778
627778
627778
627778
627778
627778
627778
6490
64590
84902
214855
627778
104907
105056
110182
627778
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^5
10^4
10^3
10^2
10
1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused


VT201 0-15 (ch1)
Entries 1.004445e+07
1
0
194756
412001
543827
481290
619974
617192
986
12427
13176
260
569273
607337
285475
346980
436411
433022
215777
83951
146488
7804
10586
626792
615381
614602
627518
627778
58505
20441
342303
280798
141367
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W
10^5
10^4
10^3
10^2
10
1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W


EM201 0-15 (ch3)
Entries 1.004445e+07
1
0
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
627778
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
10^5
10^4
10^3
10^2
10
1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused